

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006

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Trade name:	Zidac Cleansing Hand Wash with antibacterial action				
Product code:	FO 27-00100	Date of compilation:	19.10.2020.	Version:	01/2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1.	Product identifier
	Trade name: Zidac Cleansing Hand Wash with antibacterial action
	Chemical name: preparation
	Catalogue number: -
1.2.	Relevant identified uses of the substance or mixture and uses advised against
	Uses: Handwash
	Uses advised against: No additional information available
	Reason why uses advised against: No additional information available
1.3.	Details of the supplier of the safety data sheet
	Supplier: ZIDAC LABORATORIES
	Address: Unit 5, Merlin Park Airport Service Road, Portsmouth, PO3 5FU
	Telephone number: +44 (0)7387018110
	Telefax:
	e-mail of competent person: zeljka.putarek@zidac.co.uk
	National contact:
1.4.	Emergency telephone number
	National Protection and Rescue Directorate: 112 (Europe)
	Medical information:
	Other information:

SECTION 2. Hazards identification	
2.1.	Classification of the substance or mixture
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)
	Hazard class and category code: Hazard statement*:
	The product is not classified as hazardous The product is not classified as hazardous
2.1.2.	Additional information
	This is a personal care product that is safe for consumers when used according to directions on the label. Ingestion of large quantities may cause nausea, sickness and diarrhoea.
	* For full text of Hazard- and EU Hazard-statements: see SECTION 16
2.2.	Label elements
	Product identification: Handwash
	Identification number: No information available.
	Authorisation number: No information available.
	Hazard pictograms: -
	Signal word: -

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	Hazard statement:	-
	Precautionary statement:	-
	Supplemental hazard information (EU):	
2.3.	Other hazards	
	No data	

SECTION 3. Composition/information on ingredients

CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
68891-38-3/500-234-8	-	5.99 – 6.61	Sodium Laureth Sulphate	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412
61789-40-0/263-058-8	-	1.35 – 1.65	Cocamidopropyl Betaine	Eye Irrit. 2; H319
122-99-6/204-589-7/603-098-00-9	01-2119488943-21	0.45 – 0.55	Phenoxyethanol	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
-	-	0.45 – 0.55	Parfum	Skin Sens. 1; H317 Aquatic Chronic 2; H411
68155-06-6/931-329-6	01-2119489409-22-0000	0.18 – 0.22	Cocamide DEA	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411
6440-58-0/229-222-8 26172-55-4/247-500-7 2682-20-4/220-239-6		0.15 – 0.35	DMDM Hydantoin Methylchloroisothiazolinone Methylisothiazolinone	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411
139-33-3/205-358-3	01-2119486775-20-0002	0.010 – 0.030	Disodium EDTA	Acute Tox. 4 (Inhalation-dust); H332 STOT RE (Respiratory system) 2 (by inhalation); H373
5949-29-1/201-069-1	01-2119457026-42-0022	0.010 – 0.030	Citric Acid	Eye Irrit. 2; H319
26590-05-6/-	-	0.010 – 0.030	Polyquaternium-7	Aquatic Chronic 2; H411
4065-45-6	-	0.009-0.011	Benzophenone-4	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317

SECTION 4. First aid measures

4.1.	Description of first aid measures
	General notes: Avoid contact with eyes.

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	Following inhalation:	When symptoms occur: go into open air and ventilate suspected area. Respiratory problems: consult a doctor/medical service.
	Following skin contact:	Get medical attention if irritation persists.
	Following eye contact:	Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.
	Following ingestion:	Do NOT induce vomiting. Drink plenty of water. If necessary seek medical attention.
	Self-protection of the first aider:	Follow the instructions on the label or the Safety Data Sheet
4.2.	Most important symptoms and effects, both acute and delayed	
	Following inhalation:	Not applicable.
	Following skin contact:	None.
	Following eye contact:	May cause slight irritation.
	Following ingestion:	Gastrointestinal complaints.
4.3.	Indication of any immediate medical attention and special treatment needed	
	No information available.	

SECTION 5. Fire fighting measures		
5.1.	Extinguishing media	
	Suitable extinguishing media:	Water, Dry powder, Carbon dioxide (CO ₂)
	Unsuitable extinguishing media:	No information available.
5.2.	Special hazards arising from the substance or mixture	
	Hazardous combustion products:	No information available.
5.3.	Advice for fire-fighters	
	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.	
5.4.	Additional information	
	Dispose of waste according to applicable legislation.	

SECTION 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
	Protective equipment:	Gloves
	Accident prevention methods:	Avoid contact with eyes.
	Emergency procedures:	Rinse with clean water.
6.1.2.	For emergency responders:	
	Protective equipment: Wear suitable gloves.	

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6.2.	Environmental precautions:	
	Consumer products ending up down the drain after use. Prevent soil and water pollution. Prevent spreading in sewers.	
6.3.	Methods and material for containment and cleaning up	
6.3.1.	Binding, covering of drains; capping procedures:	Scoop absorbed substance into closing containers.
6.3.2.	Cleaning up:	Small quantities of liquid spill: cover with non-combustible absorbent material and shovel into container for disposal. Large spills: contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.
6.3.3.	Other information:	No additional information available.
6.4.	Reference to other sections	
	Refer to sections 8 and 13.	

SECTION 7. Handling and storage	
7.1.	Precautions for safe handling
7.1.1.	Protective measures: Do not handle until all safety precautions have been read and understood
	Measures to prevent fire: The product is not flammable.
	Measures to prevent aerosol and dust generation: Use the product in well-ventilated areas.
	Measures to protect the environment: Store in original container.
	Other measures: Prevent soil and water pollution.
7.1.2.	Advice on general occupational hygiene:
	Do not eat, drink or smoke when using this product.
7.2.	Conditions for safe storage, including any incompatibilities
	Technical measures and storage conditions: Store at temperatures above +5°C and below 40°C.
	Packaging materials: Original container from the manufacturer.
	Requirements for storage rooms and vessels: Store only in the original container.
	Advices for storage equipment: Store in a well ventilated place.
	Further information on storage conditions: Store in original container.
7.3.	Specific end use(s)
	Recommendations: Hand wash
	Industrial sector specific solutions: Personal care

SECTION 8. Exposure controls/personal protection			
8.1.	Control parameters		
	Substance	CAS No	Occupational exposure limit values/short term values
			Biological limit values

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		ppm	mg/m ³	
-	-	-	-	-

Substance:	-			
EC No:	-	CAS No:	-	-

DNEL

Industrial				
Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	No data	No data	No data	No data
Inhalation	No data	No data	No data	No data
Dermal	No data	No data	No data	No data

Critical physical parameters: solubility, flammability, corrosion:

Consumer

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	No data	No data	No data	No data
Inhalation	No data	No data	No data	No data
Dermal	No data	No data	No data	No data

PNEC

Environmental protection target	PNEC
Fresh water	No data
Freshwater sediments	No data
Marine water	No data
Marine sediments	No data
Food chain	No data
Microorganisms in sewage treatment	No data
Soil (agricultural)	No data
Air	No data

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses:	Comply with the instructions for use.
Structural measures to prevent exposure:	For consumer use, no unusual precautions are necessary.

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	Organisational measures to prevent exposure:	Use only in well-ventilated areas.
	Technical measures to prevent exposure:	Keep only in the original container at a temperature above +5°C and below 40°C.
8.2.2.	Personal protection equipment: not necessary for normal conditions of use	
8.2.2.1.	Eye and face protection:	Wear suitable protective eye/face protection.
8.2.2.2.	Skin protection:	Wear suitable protective clothing.
	Hand protection:	Not necessary
	Other skin protection:	Not necessary
8.2.2.3.	Respiratory protection:	Not necessary
8.2.2.4.	Thermal hazards:	Product is not flammable.
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	Keep only in an original container. Avoid releasing to the environment.
	Structural measures to prevent exposure:	Comply with the instructions for use.
	Organisational measures to prevent exposure:	Use only in well-ventilated areas.
	Technical measures to prevent exposure:	Comply with the instructions for use.

SECTION 9. Physical and chemical properties

9.1.	Information on basic physical and chemical properties		
		Value	Method
	Physical state:	clear viscous liquid	
	Colour:	Light blue	
	Odour:	pleasant	
	Odour threshold:	not determined	
	pH:	5.00 - 7.00	
	Melting point / freezing point:	not applicable	
	Initial boiling point and boiling range:	not determined	
	Flash point:	not determined	
	Evaporation rate:	not determined	
	Flammability (solid, gas):	not auto-flammable	
	Upper/lower flammability or explosive limits:	not applicable	
	Vapour pressure:	not determined	

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Vapour density:	not determined
Relative density:	1.019 - 1.041 @ 20°C
Bulk density:	not determined
Dry matter:	not determined
Solubility(ies)- water:	not determined
Partition coefficient: n-octanol/water (log Kow):	not determined
Auto-ignition temperature:	not auto-flammable
Decomposition temperature:	not determined
Viscosity:	4.000 - 8.000 mPas
Explosive properties:	not explosive
Oxidising properties:	mixture is not classified as oxidizing
9.2.	Other information

SECTION 10.: Stability and reactivity	
10.1.	Reactivity: Not expected.
10.2.	Chemical stability: Stable with proper storage and handling.
10.3.	Possibility of hazardous reactions: No dangerous reactions known.
10.4.	Conditions to avoid: Direct sunlight.
10.5.	Incompatible materials: No data available
10.6.	Hazardous decomposition products: No data available

SECTION 11. Toxicological information					
11.1. Information on toxicological effects					
Acute toxicity:					
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	No data	-	-	-	-
Dermal:	No data	-	-	-	-
Inhalation:	No data	-	-	-	-
Specific target organ toxicity – single exposure (STOT SE):					
	Specific effects		Target organ	Note	
Oral:	No data		-	-	
Dermal:	No data		-	-	

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Inhalation:	No data		-	-		
Aspiration hazard:		No data				
Irritation and corrosion:						
	Exposure time	Species	Evaluation	Method	Note	
Skin corrosion/irritation	No data	-	-	-	-	
Serious eye damage/irritation	No data	-	-	-	-	
Sensitization						
Skin sensitization:	No data					
Respiratory sensitization:	No data					
Symptoms related to the physical, chemical and toxicological characteristics						
Oral exposure:	No data					
Dermal exposure:	No data					
Inhalation exposure:	No data					
Eye exposure:	No data					
Repeated dose toxicity (subacute, subchronic, chronic)						
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No data	-	-	-	-	-
Subacute dermal	No data	-	-	-	-	-
Subacute inhalation	No data	-	-	-	-	-
Subchronic oral	No data	-	-	-	-	-
Subchronic dermal	No data	-	-	-	-	-
Subchronic inhalation	No data	-	-	-	-	-
Chronic oral	No data	-	-	-	-	-
Chronic dermal	No data	-	-	-	-	-
Chronic inhalation	No data	-	-	-	-	-
Specific target organ toxicity – repeated exposure (STOT RE):						
	Specific effects		Target organ		Note	
Subacute oral	No data		-		-	
Subacute dermal	No data		-		-	
Subacute inhalation	No data		-		-	

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Subchronic oral	No data	-	-
Subchronic dermal	No data	-	-
Subchronic inhalation	No data	-	-
Chronic oral	No data	-	-
Chronic dermal	No data	-	-
Chronic inhalation	No data	-	-

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)	
Carcinogenicity:	No data
Mutagenicity <i>in-vitro</i> :	No data
Genotoxicity:	No data
Mutagenicity <i>in-vivo</i> :	No data
Germ cell mutagenicity :	No data
Reproductive toxicity:	No data
Summary of evaluation of the CMR properties;	
No data	

11.2.	Practical experiences:
	Classification observations: No data
	Other observations: No data
11.3.	General notes:
	No data

SECTION 12. Ecological information

12.1. Toxicity

Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish:	LC ₅₀	96 hours	No data	-	-	-
Crustacea:	EC ₅₀	48 hours	No data	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	No data	-	-	-
Other organisms:			No data	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish:	LC ₅₀	96 hours	No data	-	-	-
Crustacea:	EC ₅₀	48 hours	No data	-	-	-

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Algae/aquatic plants:	IC ₅₀	72 hours	No data	-	-	-
Other organisms:			No data	-	-	-
12.2. Persistence and degradability						
Abiotic degradation						
	Degradation half-lives		Method		Evaluation	Note
Marine water	No data		-		-	-
Fresh water	No data		-		-	-
Air	No data		-		-	-
Soil	No data		-		-	-
Biodegradation						
% Degradation	Time (days)		Method		Evaluation	Note
No data	-		-		-	-
12.3. Bioaccumulative potential						
Octanol-water partition coefficient (log Kow)						
Value	Concentration	pH	°C	Method	Evaluation	Note
No data	-	-	-	-	-	-
Bioconcentration factor (BCF)						
Value	Species		Method		Evaluation	Note
No data	-		-		-	-
Chronic ecotoxicity						
Vrijednost	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC ₅₀	No data	-	-	-	-
Chronic toxicity on crustacea (Daphnia)	EC ₅₀	No data	-	-	-	-
12.4. Mobility in soil						
Known or predicted distribution in environmental compartments:						

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Surface tension:					
	Value	°C	Concentration	Method	Note
	No data	-	-	-	-

Adsorption/desorption					
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Water	No data	-	-	-	-
Water-Air	No data	-	-	-	-
Soil-Air	No data	-	-	-	-

12.5.	Results of PBT and vPvB assessment
	No data
12.6.	Other adverse effects
	No data

SECTION 13. Disposal considerations	
13.1.	Waste treatment methods
Disposal must be performed through an authorised waste management company, in compliance with national and local regulations.	
13.1.1.	Product/Packaging disposal:
	Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.
13.1.2.	Waste codes/waste designations according to Low:
	No data
13.1.3.	Waste treatment – relevant information:
	No data
13.1.4.	Sewage disposal – relevant information:
	Do not discharge into the sewer.

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13.1.5.	Other disposal recommendations:
	No
13.1.6.	Relevant Community provisions:
	No data

SECTION 14. Transport information	
Transporting/shipment by road (ADR)	
UN number:	-
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by rail (RID)	
UN number:	-
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland waterways (ADN)	
UN number:	-
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (IMDG)	
UN number:	-
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-

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Transporting/shipment by air (ICAO-TI/IATA-DGR)	
UN number:	-
UN proper shipping name:	-
Transport hazard class(es):	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTION 15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU regulations	
Authorisations and/or restrictions on use	
Authorisations:	No data
Restrictions:	No data
Other EU regulations:	CLP, REACH
Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)	
National legislation:	-
15.2. Chemical safety assessment	
No	

SECTION 16. Other information	
16.1. Indication of changes:	Harmonisation with the CLP Regulation
16.2. Abbreviations and acronyms:	-
16.3. Key literature references and source of data:	Raw materials MSDS
16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)	
Classification	Classification procedure
16.5. Relevant H statements (number and full text)	
H: 302	Harmful if swallowed.
H: 315	Causes skin irritation.
H: 317	May cause an allergic skin reaction.
H: 318	Causes serious eye damage.
H: 319	Causes serious eye irritation.

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	H: 332	Harmful if inhaled.
	H: 373	May cause damage to organs (Respiratory system) through prolonged or repeated exposure (inhalation).
	H: 411	Toxic to aquatic life with long lasting effects.
	H: 412	Harmful to aquatic life with long lasting effects.
16.6.	Training advice:	-
16.7.	Further information:	-

ANNEX: Exposure scenario resulting to Chemical safety assessment	
-	

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Trade name:	Zidac Multipurpose Surface disinfectant		
Product code:	FO 40-00006	Date of compilation:	25.06.2020. Version: 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Trade name:	Zidac Multipurpose Surface disinfectant
Chemical name:	-
Catalogue number:	-
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Uses:	Multipurpose ethanol based liquid for fast disinfection (PT2 Disinfectants and algaecides not intended for direct application to humans or animals and PT4 Food and feed area)
Uses advised against:	Any other than specified
Reason why uses advised against:	-
1.3. Details of the supplier of the safety data sheet	
Supplier:	ZIDAC LABORATORIES
Address:	Unit 5, Merlin Park Airport Service Road, Portsmouth, PO3 5FU
Telephone number:	+44 (0)7387018110
Telefax:	
e-mail of competent person:	zeljka.putarek@zidac.co.uk
National contact:	
1.4. Emergency telephone number	
National Protection and Rescue Directorate:	112 (Europe)
Medical information:	
Other information:	

SECTION 2. Hazards identification	
2.1. Classification of the substance or mixture	
2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)	
Hazard class and category code:	Hazard statement*:
Eye Irrit. 2	H319
Flam. Liq. 2	H225
2.1.2. Additional information	
* For full text of Hazard- and EU Hazard-statements: see SECTION 16	
2.2. Label elements	
Product identification:	Zidac Multipurpose Surface disinfectant
Identification number:	-

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Authorisation number:	-
Hazard pictograms:	 
Signal word:	Danger
Hazard statement:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Precautionary statement:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P270 Do not eat, drink or smoke when using this product. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: get medical advice/attention. P404 Store in closed container. P501 Dispose of content/container in accordance with national regulations.
Supplemental hazard information (EU):	BPR001 Use biocides safely. Always read the label and product information before use.
2.3. Other hazards	
	None known

SECTION 3. Composition/information on ingredients

CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
64-17-5 / 200-578-6 / -	-	78.2	Ethanol	Flammable liq, Category 3 Eye irritation, Category 2 H225, H319
90-43-7 / 201-993-5 / -	-	0.1	2-phenylphenol	Skin irritation, category 2 Eye irritation, Category 2 STOT SE 3 Aquatic acute 1 Aquatic chronic 1 H315, H319, H335, H400, H410

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SECTION 4. First aid measures	
4.1.	Description of first aid measures
General notes:	
Following inhalation:	Not expected. Can cause cough in sensitive persons, irritation of the upper respiratory tract, by overuse drowsiness, headache and dizziness. Move affected person to fresh.
Following skin contact:	Not expected. Avoid contact with sore or broken skin. In sensitive persons can cause drying out, redness. Remove contaminated clothing and rinse with plenty of water.
Following eye contact:	Irritation. Avoid contact with eyes. If contact occurs, remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
Following ingestion:	DO NOT induce vomiting. Get medical attention immediately.
Self-protection of the first aider	
4.2.	Most important symptoms and effects, both acute and delayed
Following inhalation:	No specific symptoms known.
Following skin contact:	No specific symptoms known.
Following eye contact:	May cause severe eye irritation.
Following ingestion:	May cause nausea, headache, dizziness and intoxication.
4.3.	Indication of any immediate medical attention and special treatment needed
	No specific recommendation.

SECTION 5. Firefighting measures	
5.1.	Extinguishing media
Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment (foam, carbon dioxide or dry powder).
Unsuitable extinguishing media:	High volume water jet.
5.2.	Special hazards arising from the substance or mixture
Hazardous combustion products:	Carbon oxides
5.3.	Advice for firefighters
	Use personal protective equipment and fight fire from safe distance.
5.4.	Additional information
	Use water spray to cool unopened packaging. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

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SECTION 6. Accidental release measures							
6.1.	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personnel						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Protective equipment:</td> <td style="padding: 5px;">Remove all sources of ignition. Ensure clean –up is conducted by trained personnel only. Refer to protective listed in sections 7 and 8.</td> </tr> <tr> <td style="padding: 5px;">Accident prevention methods:</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Emergency procedures:</td> <td style="padding: 5px;">Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.</td> </tr> </table>	Protective equipment:	Remove all sources of ignition. Ensure clean –up is conducted by trained personnel only. Refer to protective listed in sections 7 and 8.	Accident prevention methods:		Emergency procedures:	Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
Protective equipment:	Remove all sources of ignition. Ensure clean –up is conducted by trained personnel only. Refer to protective listed in sections 7 and 8.						
Accident prevention methods:							
Emergency procedures:	Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.						
6.1.2.	For emergency responders:						
	Same as above						
6.2.	Environmental precautions:						
	Do not allow contact with soil, surface or ground water.						
6.3.	Methods and material for containment and cleaning up						
6.3.1.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Bunding, covering of drains; capping procedures:</td> <td style="padding: 5px;">Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.</td> </tr> <tr> <td style="padding: 5px;">6.3.2. Cleaning up:</td> <td style="padding: 5px;">Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.</td> </tr> <tr> <td style="padding: 5px;">6.3.3. Other information:</td> <td style="padding: 5px;"></td> </tr> </table>	Bunding, covering of drains; capping procedures:	Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.	6.3.2. Cleaning up:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.	6.3.3. Other information:	
Bunding, covering of drains; capping procedures:	Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.						
6.3.2. Cleaning up:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.						
6.3.3. Other information:							
6.4.	Reference to other sections						
	See section 7 and 8.						

SECTION 7. Handling and storage							
7.1.	Precautions for safe handling						
7.1.1.	Protective measures						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 5px;">Measures to prevent fire:</td> <td style="padding: 5px;">Keep away from heat, sparks and open flame. Avoid contact with eyes.</td> </tr> <tr> <td style="padding: 5px;">Measures to prevent aerosol and dust generation:</td> <td style="padding: 5px;">Keep in a cool, well ventilated place. Keep away from heat and source of ignition.</td> </tr> <tr> <td style="padding: 5px;">Measures to protect the environment:</td> <td style="padding: 5px;">Keep container tightly closed.</td> </tr> </table>	Measures to prevent fire:	Keep away from heat, sparks and open flame. Avoid contact with eyes.	Measures to prevent aerosol and dust generation:	Keep in a cool, well ventilated place. Keep away from heat and source of ignition.	Measures to protect the environment:	Keep container tightly closed.
Measures to prevent fire:	Keep away from heat, sparks and open flame. Avoid contact with eyes.						
Measures to prevent aerosol and dust generation:	Keep in a cool, well ventilated place. Keep away from heat and source of ignition.						
Measures to protect the environment:	Keep container tightly closed.						

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	Other measures:	
7.1.2.	Advice on general occupational hygiene:	
	Do not smoke in work area.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.
	Packaging materials:	Original packaging. Keep container tightly closed.
	Requirements for storage rooms and vessels:	Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge.
	Advices for storage equipment:	
	Further information on storage conditions:	
7.3.	Specific end use(s)	
	Recommendations:	
	Industrial sector specific solutions:	

SECTION 8. Exposure controls/personal protection				
8.1.	Control parameters			
	Substance	CAS No	Occupational exposure limit values/short term values	Biological limit values
			ppm mg/m ³	
	ethanol	64-17-5	1000 1920	-
	Substance:	-		
	EC No:	-	CAS No:	-
DNEL				
Industrial				
	Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local
				Chronic effect systemic
	Oral	No data	No data	No data
	Inhalation	1900 mg/m ³	No data	950 mg/m ³
	Dermal	No data	No data	343mg/kg bw/d
Critical physical parameters: solubility, flammability, corrosivity:				
Consumer				

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Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	No data	No data	No data	No data
Inhalation	No data	No data	No data	No data
Dermal	No data	No data	No data	No data

PNEC	
Environmental protection target	PNEC
Fresh water	No data
Freshwater sediments	No data
Marine water	No data
Marine sediments	No data
Food chain	No data
Microorganisms in sewage treatment	No data
Soil (agricultural)	No data
Air	No data

8.2. Exposure controls	
8.2.1. Appropriate engineering controls	
Substance/mixture related measures to prevent exposure during identified uses:	Do not breathe vapour. Ensure good ventilation. Follow the instructions for use.
Structural measures to prevent exposure:	Ensure well ventilation of the workspace.
Organisational measures to prevent exposure:	Ensure good workplace ventilation and the necessary protective equipment. Do not eat, drink, and smoke in the workplace.
Technical measures to prevent exposure:	Effective ventilation.
8.2.2. Personal protection equipment:	
8.2.2.1. Eye and face protection:	The personal protective equipment must be in accordance with EN standards. Where appropriate, face-wearing safe glasses (EN 166)
8.2.2.2. Skin protection:	
Hand protection:	Where appropriate latex or PVC gloves (EN 374)
Other skin protection:	Cotton clothing (EN ISO 13688) and suitable indoor footwear (ISO 10335).
8.2.2.3. Respiratory protection:	In normal conditions not needed.
8.2.2.4. Thermal hazards:	

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8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	Prescribed storage and use of preparations. Prevent the entry of the concentrated product into the sewage system and any discharge into surface or groundwater without prior treatment.
	Structural measures to prevent exposure:	Prescribed storage and use of preparations.
	Organisational measures to prevent exposure:	Ensure good ventilation of the work area and the necessary protective equipment. Do not eat, drink, and smoke in the workplace.
	Technical measures to prevent exposure:	Prescribed storage and use of preparations.

SECTION 9. Physical and chemical properties

9.1.	Information on basic physical and chemical properties		
		Value	Method
	Physical state:	liquid	
	Colour:	colourless	
	Odour:	Alcoholic, pleasant	
	Odour threshold;	No data	
	pH:	5.0 – 9.5	
	Melting point / freezing point;	No data	
	Initial boiling point and boiling range:	No data	
	Flash point:	No data	
	Evaporation rate:	No data	
	Flammability (solid, gas):	Flammable	
	Upper/lower flammability or explosive limits:	Not explosive	
	Vapour pressure:	No data	
	Vapour density:	No data	
	Relative density	0.848 – 0.860 @20°C	
	Bulk density:	No data	
	Solubility(ies):	No data	
	Partition coefficient: n-octanol/water (log Kow):	No data	
	Auto-ignition temperature:	Not auto-igniting	

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	Decomposition temperature:	No data	
	Viscosity:	No data	
	Explosive properties:	None	
	Oxidising properties:	None	
9.2.	Other information		
	None		

SECTION 10.: Stability and reactivity		
10.1.	Reactivity:	There are known reactivity hazards associated with this product.
10.2.	Chemical stability:	Stable under normal conditions.
10.3.	Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
10.4.	Conditions to avoid:	Heat, spark, open flame.
10.5.	Incompatible materials:	None known.
10.6.	Hazardous decomposition products:	Carbon oxides.

SECTION 11. Toxicological information					
11.1. Information on toxicological effects					
Acute toxicity:					
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	No data	-	-	-	-
Dermal:	No data	-	-	-	-
Inhalation:	No data	-	-	-	-
Specific target organ toxicity – single exposure (STOT SE):					
	Specific effects		Target organ	Note	
Oral:	No data		-	-	
Dermal:	No data		-	-	
Inhalation:	No data		-	-	
Aspiration hazard:					
No data					
Irritation and corrosion:					
	Exposure time	Species	Evaluation	Method	Note

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Skin corrosion/irritation	No data	-	-	-	-	
Serious eye damage/irritation	No data	-	-	-	Irritant	
Sensitization						
Skin sensitization:	No data, possible in persons with sensitive skin.					
Respiratory sensitization:	No data available.					
Symptoms related to the physical, chemical and toxicological characteristics						
Oral exposure:	No data available.					
Dermal exposure:	No data available.					
Inhalation exposure:	No data available.					
Eye exposure:	No data available.					
Repeated dose toxicity (subacute, subchronic, chronic)						
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No data	-	-	-	-	-
Subacute dermal	No data	-	-	-	-	-
Subacute inhalation	No data	-	-	-	-	-
Subchronic oral	No data	-	-	-	-	-
Subchronic dermal	No data	-	-	-	-	-
Subchronic inhalation	No data	-	-	-	-	-
Chronic oral	No data	-	-	-	-	-
Chronic dermal	No data	-	-	-	-	-
Chronic inhalation	No data	-	-	-	-	-
Specific target organ toxicity – repeated exposure (STOT RE):						
	Specific effects	Target organ			Note	
Subacute oral	No data	-			-	
Subacute dermal	No data	-			-	
Subacute inhalation	No data	-			-	
Subchronic oral	No data	-			-	
Subchronic dermal	No data	-			-	
Subchronic inhalation	No data	-			-	
Chronic oral	No data	-			-	
Chronic dermal	No data	-			-	

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Chronic inhalation	No data	-	-
CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)			
Carcinogenicity:	No data		
Mutagenicity <i>in-vitro</i> :	No data		
Genotoxicity:	No data		
Mutagenicity <i>in-vivo</i> :	No data		
Germ cell mutagenicity :	No data		
Reproductive toxicity:	No data		
Summary of evaluation of the CMR properties; :		No data	
11.2. Practical experiences:			
Classification observations:	No data		
Other observations:	No data		
11.3. General notes:			
No data			

SECTION 12. Ecological information						
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish:	LC ₅₀	96 hours	No data	-	-	-
Crustacea:	EC ₅₀	48 hours	No data	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	No data	-	-	-
Other organisms:			No data	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish:	LC ₅₀	96 hours	No data	-	-	-
Crustacea:	EC ₅₀	48 hours	No data	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	No data	-	-	-
Other organisms:			No data	-	-	-
12.2. Persistence and degradability						

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Abiotic degradation				
	Degradation half-lives	Method	Evaluation	Note
Marine water	No data	-	-	-
Fresh water	No data	-	-	-
Air	No data	-	-	-
Soil	No data	-	-	-

Biodegradation				
% Degradation	Time (days)	Method	Evaluation	Note
No data	-	-	-	-

12.3. Bioaccumulative potential						
Octanol-water partition coefficient (log Kow)						
Value	Concentration	pH	°C	Method	Evaluation	Note
No data	-	-	-	-	-	-

Bioconcentration factor (BCF)				
Value	Species	Method	Evaluation	Note
No data	-	-	-	-

Chronic ecotoxicity						
Vrijednost	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC ₅₀	No data	-	-	-	-
Chronic toxicity on crustacea (Daphnia)	EC ₅₀	No data	-	-	-	-

12.4. Mobility in soil	
Known or predicted distribution in environmental compartments:	
No data	

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Surface tension:					
	Value	°C	Concentration	Method	Note
	No data	-	-	-	-

Adsorption/desorption					
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Water	No data	-	-	-	-
Water-Air	No data	-	-	-	-
Soil-Air	No data	-	-	-	-

12.5.	Results of PBT and vPvB assessment
	Not PBT nor vPvB
12.6.	Other adverse effects
	None known.

SECTION 13. Disposal considerations	
13.1.	Waste treatment methods
	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
13.1.1.	Product/Packaging disposal:
	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
13.1.2.	Waste codes/waste designations according to Low:
13.1.3.	Waste treatment – relevant information:
	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
13.1.4.	Sewage disposal – relevant information:

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	Not to spill into the sewer
13.1.5.	Other disposal recommendations:
	None
13.1.6.	Relevant Community provisions:
	Waste management regulations

SECTION 14. Transport information	
Transporting/shipment by road (ADR)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No
Special precautions for user:	None
Transporting/shipment by rail (RID)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No
Special precautions for user:	None
Transporting/shipment by inland waterways (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No
Special precautions for user:	None
Transporting/shipment by sea (IMDG)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No

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Special precautions for user:	None
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	
Transporting/shipment by air (ICAO-TI/IATA-DGR)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Environmental hazards:	No
Special precautions for user:	None
Further information:	Limited quantities LQ4

SECTION 15. Regulatory information	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
	EU regulations
	Authorisations and/or restrictions on use
	Authorisations: No data
	Restrictions: No data
	Other EU regulations: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) – as amended Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on Classification, Labelling and Packaging of substances and mixtures (CLP) – as amended Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work – as amended Regulation (EU) No 528/2012 (as amended) concerning the making available on the market and use of biocidal products
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
	National legislation:
15.2.	Chemical safety assessment
	None

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SECTION 16. Other information		
16.1.	Indication of changes:	
16.2.	Abbreviations and acronyms:	
16.3.	Key literature references and source of data:	Where Exposure Scenarios for the substances listed in Section 3 are available they have been assessed for the uses identified in this data sheet or on the product label and the appropriate relevant information is incorporated into this Safety Data Sheet.
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)	
	Classification	Classification procedure
16.5.	Relevant H statements (number and full text)	
	H: 225	Highly flammable liquid and vapour.
	H: 315	Causes skin irritation.
	H: 319	Causes serious eye irritation.
	H: 335	May cause respiratory irritation.
	H: 400	Very toxic to aquatic life.
	H: 410	Very toxic to aquatic life with long lasting effects.
16.6.	Training advice:	None
16.7.	Further information:	All of the above information is based in current knowledge. This MSD S is made exclusively for this product.

ANNEX: Exposure scenario resulting to Chemical safety assessment

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SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1.	Product identifier
	Trade name: Zidac Hand Sanitising Gel
	Chemical name: -
	Catalogue number: -
1.2.	Relevant identified uses of the substance or mixture and uses advised against
	Uses: Hand sanitising (PT1 Human hygiene biocidal product)
	Uses advised against: Any other than specified
	Reason why uses advised against: -
1.3.	Details of the supplier of the safety data sheet
	Supplier: ZIDAC LABORATORIES
	Address: Unit 5, Merlin Park Airport Service Road, Portsmouth, PO3 5FU
	Telephone number: +44 (0)7387018110
	Telefax:
	e-mail of competent person: zeljka.putarek@zidac.co.uk
	National contact:
1.4.	Emergency telephone number
	National Protection and Rescue Directorate: 112 (Europe)
	Medical information:
	Other information:

SECTION 2. Hazards identification							
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Hazard class and category code:</th> <th style="width: 50%;">Hazard statement*:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Eye Irrit. 2</td> <td style="text-align: center;">H319</td> </tr> <tr> <td style="text-align: center;">Flam. Liq. 2</td> <td style="text-align: center;">H225</td> </tr> </tbody> </table>	Hazard class and category code:	Hazard statement*:	Eye Irrit. 2	H319	Flam. Liq. 2	H225
Hazard class and category code:	Hazard statement*:						
Eye Irrit. 2	H319						
Flam. Liq. 2	H225						
2.1.2.	Additional information						
* For full text of Hazard- and EU Hazard-statements: see SECTION 16							
2.2.	Label elements						
	Product identification: Zidac Hand Sanitising Gel						
	Identification number: -						
	Authorisation number: -						

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Hazard pictograms:	 
Signal word:	Danger
Hazard statement:	Flammable
Precautionary statement:	<p>P102 Keep out of reach of children.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P305+P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: get medical advice/attention.</p> <p>P404 Store in closed container.</p> <p>P501 Dispose of content/container in accordance with national regulations.</p>
Supplemental hazard information (EU):	<p>BPR001 Use biocides safely. Always read the label and product information before use.</p> <p>EUH208 Contains fragrance. May produce an allergic reaction.</p>
2.3.	Other hazards
	None known

SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
64-17-5 / 200-578-6 / -	-	78.2	Ethanol	Flammable liq, Category 3 Eye irritation, Category 2 H225, H319
90-43-7 / 201-993-5 / -	-	0.1	2-phenylphenol	Skin irritation, category 2 Eye irritation, Category 2 STOT SE 3 Aquatic acute 1 Aquatic chronic 1 H315, H319, H335, H400, H410

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-/-	-	0.09 -0.11	Fragrance	Skin irritation, category 2 Skin sensation, Sub-category 1B Eye irritation, Category 2 Aquatic chronic 2 H315, H317, H319, H411
124-68-5 / 204-709-8 / -	-	0.09 – 0.11	Aminomethyl Propanol	Skin irritation, category 2 Eye irritation, Category 2 Aquatic chronic 3 H315, H319, H412

SECTION 4. First aid measures		
4.1.	Description of first aid measures	
	General notes:	
	Following inhalation:	Not expected. Can cause cough in sensitive persons, irritation of the upper respiratory tract, by overuse drowsiness, headache and dizziness. Move affected person to fresh.
	Following skin contact:	Not expected. Avoid contact with sore or broken skin. In sensitive persons can cause drying out, redness. Remove contaminated clothing and rinse with plenty of water.
	Following eye contact:	Irritation. Avoid contact with eyes. If contact occurs, remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
	Following ingestion:	DO NOT induce vomiting. Get medical attention immediately.
	Self-protection of the first aider	
4.2.	Most important symptoms and effects, both acute and delayed	
	Following inhalation:	No specific symptoms known.
	Following skin contact:	No specific symptoms known.
	Following eye contact:	May cause severe eye irritation.
	Following ingestion:	May cause nausea, headache, dizziness and intoxication.
4.3.	Indication of any immediate medical attention and special treatment needed	
	No specific recommendation.	

SECTION 5. Firefighting measures		
5.1.	Extinguishing media	
	Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment (foam, carbon dioxide or dry powder).

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	Unsuitable extinguishing media:	High volume water jet.
5.2.	Special hazards arising from the substance or mixture	
	Hazardous combustion products:	Carbon oxides
5.3.	Advice for firefighters	
	Use personal protective equipment and fight fire from safe distance.	
5.4.	Additional information	
	Use water spray to cool unopened packaging. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.	

SECTION 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
	Protective equipment:	Remove all sources of ignition. Ensure clean –up is conducted by trained personnel only. Refer to protective listed in sections 7 and 8.
	Accident prevention methods:	
	Emergency procedures:	Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
6.1.2.	For emergency responders:	
	Same as above	
6.2.	Environmental precautions:	
	Do not allow contact with soil, surface or ground water.	
6.3.	Methods and material for containment and cleaning up	
6.3.1.	Bundling, covering of drains; capping procedures:	Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.
6.3.2.	Cleaning up:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.
6.3.3.	Other information:	
6.4.	Reference to other sections	
	See section 7 and 8.	

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SECTION 7. Handling and storage			
7.1.	Precautions for safe handling		
7.1.1.	Protective measures		
	Measures to prevent fire:	Keep away from heat, sparks and open flame. Avoid contact with eyes.	
	Measures to prevent aerosol and dust generation:	Keep in a cool, well ventilated place. Keep away from heat and source of ignition.	
	Measures to protect the environment:	Keep container tightly closed.	
	Other measures:		
7.1.2.	Advice on general occupational hygiene:		
	Do not smoke in work area.		
7.2.	Conditions for safe storage, including any incompatibilities		
	Technical measures and storage conditions:	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.	
	Packaging materials:	Original packaging. Keep container tightly closed.	
	Requirements for storage rooms and vessels:	Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge.	
	Advices for storage equipment:		
	Further information on storage conditions:		
7.3.	Specific end use(s)		
	Recommendations:		
	Industrial sector specific solutions:		

SECTION 8. Exposure controls/personal protection					
8.1.	Control parameters				
	Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values
			ppm	mg/m ³	
	ethanol	64-17-5	1000	1920	-
	Substance:	-			
	EC No:	-	CAS No:	-	
DNEL					

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Industrial				
Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	No data	No data	No data	No data
Inhalation	1900 mg/m ³	No data	No data	950 mg/m ³
Dermal	No data	No data	No data	343mg/kg bw/d

Critical physical parameters: solubility, flammability, corrosivity:

Consumer				
Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	No data	No data	No data	No data
Inhalation	No data	No data	No data	No data
Dermal	No data	No data	No data	No data

PNEC	
Environmental protection target	PNEC
Fresh water	No data
Freshwater sediments	No data
Marine water	No data
Marine sediments	No data
Food chain	No data
Microorganisms in sewage treatment	No data
Soil (agricultural)	No data
Air	No data

8.2.	Exposure controls	
8.2.1.	Appropriate engineering controls	
	Substance/mixture related measures to prevent exposure during identified uses:	Do not breathe vapour. Ensure good ventilation. Follow the instructions for use.
	Structural measures to prevent exposure:	Ensure well ventilation of the workspace.
	Organisational measures to prevent exposure:	Ensure good workplace ventilation and the necessary protective equipment. Do not eat, drink, and smoke in the workplace.
	Technical measures to prevent exposure:	Effective ventilation.
8.2.2.	Personal protection equipment:	

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8.2.2.1.	Eye and face protection:	The personal protective equipment must be in accordance with EN standards. Where appropriate, face-wearing safe glasses (EN 166)
8.2.2.2.	Skin protection:	
	Hand protection:	Where appropriate latex or PVC gloves (EN 374)
	Other skin protection:	Cotton clothing (EN ISO 13688) and suitable indoor footwear (ISO 10335).
8.2.2.3.	Respiratory protection:	In normal conditions not needed.
8.2.2.4.	Thermal hazards:	
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	Prescribed storage and use of preparations. Prevent the entry of the concentrated product into the sewage system and any discharge into surface or groundwater without prior treatment.
	Structural measures to prevent exposure:	Prescribed storage and use of preparations.
	Organisational measures to prevent exposure:	Ensure good ventilation of the work area and the necessary protective equipment. Do not eat, drink, and smoke in the workplace.
	Technical measures to prevent exposure:	Prescribed storage and use of preparations.

SECTION 9. Physical and chemical properties

9.1.	Information on basic physical and chemical properties		
		Value	Method
	Physical state:	Clear gel	
	Colour:	colourless	
	Odour:	Alcoholic, pleasant	
	Odour threshold;	No data	
	pH:	6.50 – 7.50	
	Melting point / freezing point;	No data	
	Initial boiling point and boiling range:	No data	
	Flash point:	No data	
	Evaporation rate:	No data	
	Flammability (solid, gas):	Flammable	
	Upper/lower flammability or explosive limits:	Not explosive	
	Vapour pressure:	No data	

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	Vapour density:	No data
	Relative density	0.873 – 0.890 @20°C
	Bulk density:	No data
	Solubility(ies):	No data
	Partition coefficient: n-octanol/water (log Kow):	No data
	Auto-ignition temperature:	Not auto-igniting
	Decomposition temperature:	No data
	Viscosity:	4.000 – 8.000 mPas (#4@20rpm)
	Explosive properties:	None
	Oxidising properties:	None
9.2.	Other information	
	None	

SECTION 10.: Stability and reactivity		
10.1.	Reactivity:	There are known reactivity hazards associated with this product.
10.2.	Chemical stability:	Stable under normal conditions.
10.3.	Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
10.4.	Conditions to avoid:	Heat, spark, open flame.
10.5.	Incompatible materials:	None known.
10.6.	Hazardous decomposition products:	Carbon oxides.

SECTION 11. Toxicological information					
11.1.	Information on toxicological effects				
	Acute toxicity:				
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	No data	-	-	-	-
Dermal:	No data	-	-	-	-
Inhalation:	No data	-	-	-	-
	Specific target organ toxicity – single exposure (STOT SE):				
	Specific effects		Target organ	Note	

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Oral:	No data	-	-
Dermal:	No data	-	-
Inhalation:	No data	-	-

Aspiration hazard:	No data
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Irritation and corrosion:

	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation	No data	-	-	-	-
Serious eye damage/irritation	No data	-	-	-	Irritant

Sensitization

Skin sensitization:	No data, possible in persons with sensitive skin.
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Respiratory sensitization:	No data available.
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Symptoms related to the physical, chemical and toxicological characteristics
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Oral exposure:	No data available.
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Dermal exposure:	No data available.
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Inhalation exposure:	No data available.
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Eye exposure:	No data available.
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Repeated dose toxicity (subacute, subchronic, chronic)
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	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No data	-	-	-	-	-
Subacute dermal	No data	-	-	-	-	-
Subacute inhalation	No data	-	-	-	-	-
Subchronic oral	No data	-	-	-	-	-
Subchronic dermal	No data	-	-	-	-	-
Subchronic inhalation	No data	-	-	-	-	-
Chronic oral	No data	-	-	-	-	-
Chronic dermal	No data	-	-	-	-	-
Chronic inhalation	No data	-	-	-	-	-

Specific target organ toxicity – repeated exposure (STOT RE):

	Specific effects	Target organ	Note
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Subacute oral	No data	-	-
Subacute dermal	No data	-	-
Subacute inhalation	No data	-	-
Subchronic oral	No data	-	-
Subchronic dermal	No data	-	-
Subchronic inhalation	No data	-	-
Chronic oral	No data	-	-
Chronic dermal	No data	-	-
Chronic inhalation	No data	-	-

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)	
Carcinogenicity:	No data
Mutagenicity <i>in-vitro</i> :	No data
Genotoxicity:	No data
Mutagenicity <i>in-vivo</i> :	No data
Germ cell mutagenicity :	No data
Reproductive toxicity:	No data

Summary of evaluation of the CMR properties; :	No data
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11.2.	Practical experiences:
	Classification observations: No data
	Other observations: No data

11.3.	General notes:
	No data

SECTION 12. Ecological information

12.1.	Toxicity					
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish:	LC ₅₀	96 hours	No data	-	-	-
Crustacea:	EC ₅₀	48 hours	No data	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	No data	-	-	-
Other organisms:			No data	-	-	-

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Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish:	LC ₅₀	96 hours	No data	-	-	-
Crustacea:	EC ₅₀	48 hours	No data	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	No data	-	-	-
Other organisms:			No data	-	-	-

12.2. Persistence and degradability

Abiotic degradation						
	Degradation half-lives	Method	Evaluation	Note		
Marine water	No data	-	-	-		
Fresh water	No data	-	-	-		
Air	No data	-	-	-		
Soil	No data	-	-	-		

Biodegradation

% Degradation	Time (days)	Method	Evaluation	Note		
No data	-	-	-	-		

12.3. Bioaccumulative potential

Octanol-water partition coefficient (log K _{ow})						
Value	Concentration	pH	°C	Method	Evaluation	Note
No data	-	-	-	-	-	-

Bioconcentration factor (BCF)

Value	Species	Method	Evaluation	Note		
No data	-	-	-	-		

Chronic ecotoxicity

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Vrijednost	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC ₅₀	No data	-	-	-	-
Chronic toxicity on crustacea (Daphnia)	EC ₅₀	No data	-	-	-	-

12.4. Mobility in soil

Known or predicted distribution in environmental compartments:						
No data						
Surface tension:						
	Value	°C	Concentration	Method	Note	
	No data	-	-	-	-	

Adsorption/desorption

Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Water	No data	-	-	-	-
Water-Air	No data	-	-	-	-
Soil-Air	No data	-	-	-	-

12.5. Results of PBT and vPvB assessment

Not PBT nor vPvB

12.6. Other adverse effects

None known.

SECTION 13. Disposal considerations

13.1.	Waste treatment methods
The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.	
13.1.1.	Product/Packaging disposal:
Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.	

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13.1.2.	Waste codes/waste designations according to Low:
13.1.3.	Waste treatment – relevant information: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
13.1.4.	Sewage disposal – relevant information: Not to spill into the sewer
13.1.5.	Other disposal recommendations: None
13.1.6.	Relevant Community provisions: Waste management regulations

SECTION 14. Transport information	
Transporting/shipment by road (ADR)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No
Special precautions for user:	None
Transporting/shipment by rail (RID)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No
Special precautions for user:	None
Transporting/shipment by inland waterways (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3

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Packing group:	II
Environmental hazards:	No
Special precautions for user:	None
Transporting/shipment by sea (IMDG)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No
Special precautions for user:	None
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	
Transporting/shipment by air (ICAO-TI/IATA-DGR)	
UN number:	1170
UN proper shipping name:	Ethanol
Transport hazard class(es):	3
Environmental hazards:	II
Special precautions for user:	None
Further information: Limited quantities LQ4	

SECTION 15. Regulatory information	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
	EU regulations
	Authorisations and/or restrictions on use
	Authorisations: No data
	Restrictions: No data

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	Other EU regulations:	<p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) – as amended</p> <p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on Classification, Labelling and Packaging of substances and mixtures (CLP) – as amended</p> <p>Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work</p> <p>Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work – as amended</p> <p>Regulation (EU) No 528/2012 (as amended) concerning the making available on the market and use of biocidal products</p>
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)	
	National legislation:	
15.2.	Chemical safety assessment	
	None	

SECTION 16. Other information		
16.1.	Indication of changes:	
16.2.	Abbreviations and acronyms:	
16.3.	Key literature references and source of data:	Where Exposure Scenarios for the substances listed in Section 3 are available they have been assessed for the uses identified in this data sheet or on the product label and the appropriate relevant information is incorporated into this Safety Data Sheet.
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)	
	Classification	Classification procedure
16.5.	Relevant H statements (number and full text)	
	H: 225	Highly flammable liquid and vapour.
	H: 315	Causes skin irritation.
	H: 317	May cause an allergic skin reaction.
	H: 319	Causes serious eye irritation.
	H: 335	May cause respiratory irritation.
	H: 400	Very toxic to aquatic life.

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	H: 410	Very toxic to aquatic life with long lasting effects.
	H: 411	Toxic to aquatic life with long lasting effects.
	H: 412	Harmful to aquatic life with long lasting effects.
16.6.	Training advice:	None
16.7.	Further information:	All of the above information is based in current knowledge. This MSD S is made exclusively for this product.

ANNEX: Exposure scenario resulting to Chemical safety assessment

GEL INK GT9915N BLACK - GT9915N BLACK

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : GEL INK GT9915N BLACK

Product code : GT9915N BLACK.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Ink for PAPER MATE: 300 Gel, Biodegradable Gel, Flexgrip Elite Gel

1.3. Details of the supplier of the safety data sheet

Registered company name : Newell Rubbermaid UK Limited.

Address : Halifax Ave - Fradley Park .WS 13 8SS.Lichfield Staffordshire.United Kingdom.

Telephone : +44 (0) 1543447001. Fax : .

Aftersales.SERVICE@newellco.com

www.newellrubbermaid.com

1.4. Emergency telephone number : 0845 4647.

Association/Organisation : National Poisons Information Service.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard statements :

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) \geq 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

GEL INK GT9915N BLACK - GT9915N BLACK

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 6428-31-5 C.I. DIRECT BLACK 19	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319	Xi Xi;R36/38		2.5 <= x % < 10
INDEX: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 ETHANOL	GHS02 Dgr Flam. Liq. 2, H225	F F;R11	[1]	0 <= x % < 2.5

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

GEL INK GT9915N BLACK - GT9915N BLACK

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

GEL INK GT9915N BLACK - GT9915N BLACK

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm	-	-	-	-

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes
64-17-5	500 ml/m3	960 mg/m3	2(II)	DFG. Y

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
64-17-5	1000	1900	5000	9500	-	84

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm	-	-	-	-

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- PVC (polyvinyl chloride)

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

GEL INK GT9915N BLACK - GT9915N BLACK

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Viscous liquid.

Important health, safety and environmental information

pH : Not relevant.
Boiling point/boiling range : Not specified.
Flash Point : 160.00 °C.
Explosive properties, lower explosivity limit (%) : 0.9 Vol%
Vapour pressure (50°C) : Not relevant.
Density : Not stated.
Water solubility : Soluble.
Melting point/melting range : Not specified.
Self-ignition temperature : Not specified.
Decomposition point/decomposition range : Not specified.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Avoid :

- frost

10.5. Incompatible materials

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

No toxicological data available for the substances.

11.1.2. Mixture

No toxicological data available for the mixture.

GEL INK GT9915N BLACK - GT9915N BLACK

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

08 01 13 * sludges from paint or varnish containing organic solvents or other dangerous substances

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations

- Directive 1999/45/EC and its adaptations

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.

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- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

- Container information:

The mixture is contained in packaging that does not exceed 125 ml.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

No labelling requirements for this mixture.

Title for H, EUH and R indications mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
R 11	Highly flammable.
R 36/38	Irritating to eyes and skin.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GEL INK GT9903N BLUE - GT9903N BLUE

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : GEL INK GT9903N BLUE

Product code : GT9903N BLUE.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Ink for PAPER MATE: 300 Gel, Biodegradable Gel, Flexgrip Elite Gel

1.3. Details of the supplier of the safety data sheet

Registered company name : Newell Rubbermaid UK Limited.

Address : Halifax Ave - Fradley Park .WS 13 8SS.Lichfield Staffordshire.United Kingdom.

Telephone : +44 (0) 1543447001. Fax : .

Aftersales.SERVICE@newellco.com

www.newellrubbermaid.com

1.4. Emergency telephone number : 0845 4647.

Association/Organisation : National Poisons Information Service.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard statements :

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) \geq 0.1% published by the European CHEmicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	67/548/EEC	Note	%
INDEX: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 ETHANOL	GHS02 Dgr Flam. Liq. 2, H225	F F;R11	[1]	0 <= x % < 2.5

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

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In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

GEL INK GT9903N BLUE - GT9903N BLUE

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm	-	-	-	-

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes
64-17-5	500 ml/m3	960 mg/m3	2(II)	DFG. Y

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
64-17-5	1000	1900	5000	9500	-	84

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm	-	-	-	-

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- PVC (polyvinyl chloride)

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

GEL INK GT9903N BLUE - GT9903N BLUE

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Viscous liquid.

Important health, safety and environmental information

pH : Not relevant.
Boiling point/boiling range : Not specified.
Flash Point : 160.00 °C.
Explosive properties, lower explosivity limit (%) : 0.9 vol %
Vapour pressure (50°C) : Not relevant.
Density : Not stated.
Water solubility : Soluble.
Melting point/melting range : Not specified.
Self-ignition temperature : Not specified.
Decomposition point/decomposition range : Not specified.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Avoid :

- frost

10.5. Incompatible materials

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

No toxicological data available for the substances.

11.1.2. Mixture

No toxicological data available for the mixture.

GEL INK GT9903N BLUE - GT9903N BLUE

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

08 01 13 * sludges from paint or varnish containing organic solvents or other dangerous substances

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations

- Directive 1999/45/EC and its adaptations

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.

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- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

- Container information:

The mixture is contained in packaging that does not exceed 125 ml.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

No labelling requirements for this mixture.

Title for H, EUH and R indications mentioned in section 3 :

H225 Highly flammable liquid and vapour.

R 11 Highly flammable.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).