



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier	
	Trade name:	
	Chemical name:	-
	Catalogue number:	-
1.2.	Relevant identified uses of the substance or mixture and uses advised against	
	Uses:	Hand sanitizing (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:	
	Address:	
	Telephone number:	
	Telefax:	
	e-mail of competent person:	
	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 Flam. Liq. 2	H319 H225
2.1.2.	Additional information	
	* For full text of Hazard- and EU Hazard-statements: see SECTION 16	
2.2.	Label elements	
	Product identification:	
	Identification number:	-
	Authorisation number:	-

	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 / -	-	70	Ethanol	Eye irritation, Category 2 Flammable liq, Category 3 H225, H319
-/-/-	-	0.09 -0.11	Fragrance	Skin irritation, category 2 Skin sensation, Sub-category 1B Eye irritation, Category 2 Chronic aquatic toxicity 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 Chronic aquatic toxicity, category 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).
	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.	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	
	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				
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:			
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	
	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:	5.000 – 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
Oral:	No data			-	-
Dermal:	No data			-	-
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		-		-		-		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	-	-
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						
	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				
	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:
	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
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
	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
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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: 317	May cause an allergic skin reaction.
	H: 319	Causes serious eye irritation.
	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

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