



AUTO GS S.A.

ENGINE CLEANER

Revision nr. 1

Dated 10/04/2021

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Safety data sheet

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

1.1. Product identifier

Code: 18404
Product name: ENGINE CLEANER
UFI: PKU5-3118-AQ1X-KSGM

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

Intended use: Car engine cleaner

1.3. Details of the supplier of the safety data sheet

Name: AUTO GS S.A.
Full address: PROEKTASI MAIANDROY-(ANOTHEN PERIFEREIAKOY EVOSMOS)
District and Country: 57013 THESSALONIKI (THESSALONIKI)
GREECE
Tel. +30 2310 688051
Fax +30 2310 688052

e-mail address of the competent person

responsible for the Safety Data Sheet: steve_gagas@yahoo.gr
Product distribution by: AUTO GS S.A.

1.4. Emergency telephone number

For urgent inquiries refer to: +30 210 7793777

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





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Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves / clothing and eye / face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER / doctor.
P405 Store locked up.

2.3. Other hazards.

CONTAINS: Anionic surfactants 5 % or over but less than 15 %.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
2-BUTOXYETHANOL		
CAS. 111-76-2	3 - 7	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC. 203-905-0		
INDEX. 603-014-00-0		
Reg. no. 01-2119475108-36-XXXX		
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS		
CAS. 68891-38-3	1 -< 5	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC. 500-234-8		
INDEX. -		
Reg. no. 01-2119488639-16-XXXX		



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SUFONIC ACIDS, C14-17-SEC-ALKANE, SODIUM SALTS

CAS. 97489-15-1

1 -< 3

Acute Tox. 4 H302, Eye Dam.
1 H318, Skin Irrit. 2 H315,
Aquatic Chronic 3 H412

EC. 307-055-2

INDEX. -

Reg. no. 1-2119489924-20-XXXX

DISODIUM METASILICATE PENTAHYDRATE

CAS. 10213-79-3

1 -< 2.5

Met. Corr. 1 H290, Skin Corr.
1B H314, STOT SE 3 H335

EC. 229-912-9

INDEX. -

Reg. no. 01-2119449811-37-XXXX

SODIUM HYDROXIDE

CAS. 1310-73-2

1 -< 2

Met. Corr. 1 H290, Skin Corr.
1A H314

EC. 215-185-5

INDEX. 011-002-00-6

Reg. no. 01-2119457892-27-XXXX

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.



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5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.



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SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
TUR	Türkiye	2000/39/EC sayılı Direktifin ekidir
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

2-BUTOXYETHANOL

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	98		246		SKIN.
TLV	CZE	100		200		SKIN.
AGW	DEU	49	10	196	40	SKIN.
MAK	DEU	49	10	98	20	SKIN.
VLEP	FRA	49	10	246	50	SKIN.
WEL	GBR	123	25	246	50	SKIN.



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TLV	GRC	120	25			
GVI	HRV	98	20	246	50	SKIN.
TLV	ITA	98	20	246	50	SKIN.
OEL	NLD	100		246		SKIN.
ESD	TUR	98	20	246	50	SKIN.
OEL	EU	98	20	246	50	SKIN.
TLV-ACGIH		97	20			

Predicted no-effect concentration - PNEC.

Normal value in fresh water	8,8	mg/l
Normal value in marine water	0,88	mg/l
Normal value for fresh water sediment	34,6	mg/kg
Normal value for marine water sediment	3,46	mg/kg
Normal value of STP microorganisms	463	mg/l
Normal value for the terrestrial compartment	2,8	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Chronic systemic	Effects on workers		Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic		
Oral.	VND	13,4 mg/kg bw/d	VND	3,2 mg/kg bw/d				
Inhalation.	123 mg/m3	VND	VND	49 mg/m3	50 mg/m3	135 mg/m3	VND	20 mg/m3
Skin.	VND	44,5 mg/kg bw/d	VND	38 mg/kg bw/d	VND	89 mg/kg bw/d	VND	75 mg/kg bw/d

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	5,45	mg/kg
Normal value for marine water sediment	0,545	mg/kg
Normal value of STP microorganisms	10000	mg/l
Normal value for the terrestrial compartment	0,946	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Chronic systemic	Effects on workers		Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic		
Oral.	VND	15 mg/kg/d						
Inhalation.	VND	52 mg/m3					VND	175 mg/m3
Skin.	VND	1650 mg/kg/d					VND	2750 mg/kg bw/d

SUFONIC ACIDS, C14-17-SEC-ALKANE, SODIUM SALTS

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,04	mg/l
Normal value in marine water	0,004	mg/l
Normal value for fresh water sediment	9,4	mg/kg
Normal value for marine water sediment	0,94	mg/kg
Normal value for water, intermittent release	0,06	mg/l
Normal value of STP microorganisms	600	mg/l
Normal value for the food chain (secondary poisoning)	53,3	mg/kg
Normal value for the terrestrial compartment	9,4	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Chronic systemic	Effects on workers		Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic		
Oral.			VND	7,1 mg/kg bw/d				
Inhalation.			VND	12,4 mg/m3			VND	35 mg/m3
Skin.	2,8 mg/cm2	VND	2,8 mg/kg bw/d	3,57 mg/kg	2,8 mg/cm2	VND	2,8 mg/cm2	5 mg/kg bw/d



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bw/d

DISODIUM METASILICATE PENTAHYDRATE

Predicted no-effect concentration - PNEC.

Normal value in fresh water	7,5	mg/l
Normal value in marine water	1	mg/l
Normal value for water, intermittent release	7,5	mg/l
Normal value of STP microorganisms	1000	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.	Acute systemic	Chronic local	Chronic systemic	Effects on workers	Acute systemic	Chronic local	Chronic systemic
	Acute local				Acute local			
Oral.			VND	0,74 mg/kg bw/d				
Inhalation.			VND	1,55 mg/m3			VND	6,22 mg/m3
Skin.			VND	0,74 mg/kg bw/d			VND	1,49 mg/kg bw/d

SODIUM HYDROXIDE**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	2			
TLV	CZE	1		2	
VLEP	FRA	2			
WEL	GBR			2	
TLV	GRC	2		2	
GVI	HRV			2	
TLV-ACGIH				2 (C)	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.	Acute systemic	Chronic local	Chronic systemic	Effects on workers	Acute systemic	Chronic local	Chronic systemic
	Acute local				Acute local			
Inhalation.			1 mg/m3	VND			1 mg/m3	VND

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.



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SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	transparent
Odour	typical
Odour threshold.	Not available.
pH.	>12,8
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,010-1,040
Solubility	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.



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10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

2-BUTOXYETHANOL: decomposes in the presence of heat.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

2-BUTOXYETHANOL: can react dangerously with: aluminium, oxidising agents. Forms peroxide with air.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

SODIUM HYDROXIDE: exposure to the air, moisture and sources of heat.

2-BUTOXYETHANOL: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials.

SODIUM HYDROXIDE: strong acids, ammonia, zinc, lead, aluminium, water and flammable liquids.

10.6. Hazardous decomposition products.

2-BUTOXYETHANOL: hydrogen.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. The vapors and/or powders are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and



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oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible. This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

DISODIUM METASILICATE PENTAHYDRATE

LD50 (Oral).> 1150 mg/kg rat

LD50 (Dermal).> 5000 mg/kg rat

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

LD50 (Oral).> 2000 mg/kg Rat

LD50 (Dermal).> 2000 mg/kg Rat

SUFONIC ACIDS, C14-17-SEC-ALKANE, SODIUM SALTS

LD50 (Oral).> 500 mg/kg rat

LD50 (Dermal).> 2000 mg/kg rat

SODIUM HYDROXIDE

LD50 (Oral).1350 mg/kg Rat

LD50 (Dermal).1350 mg/kg Rat

2-BUTOXYETHANOL

LD50 (Oral).1300 mg/kg Rat

LD50 (Dermal).> 2000 mg/kg

LC50 (Inhalation).> 3,1 mg/l/4h Rat

SECTION 12. Ecological information.

12.1. Toxicity.

DISODIUM METASILICATE

PENTAHYDRATE

LC50 - for Fish. 210 mg/l/96h Brachydanio rerio

EC50 - for Crustacea. 1700 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants. 345,4 mg/l/72h Scenedesmus subspicatus

ALCOHOLS, C12-14,

ETHOXYLATED,

SULFATES, SODIUM SALTS

LC50 - for Fish. 7,1 mg/l/96h Brachydario rerio

EC50 - for Crustacea. 7,4 mg/l/48h Dafnia magna

EC50 - for Algae / Aquatic Plants. 27,7 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Fish. 1,2 mg/l

Chronic NOEC for Crustacea. 1,2 mg/l

SUFONIC ACIDS, C14-17-

SEC-ALKANE, SODIUM

SALTS

LC50 - for Fish. > 1 mg/l/96h Danio rerio

EC50 - for Crustacea. 9,81 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants. 61 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Fish. 0,85 mg/l Oncorhynchus mykiss



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Chronic NOEC for Crustacea. 0,36 mg/l Daphnia magna

SODIUM HYDROXIDE

LC50 - for Fish. 45,4 mg/l/96h

EC50 - for Crustacea. 40,4 mg/l/48h Daphnia

2-BUTOXYETHANOL

LC50 - for Fish. 1474 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea. 1550 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants. 911 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish. > 100 mg/l Danio rerio

Chronic NOEC for Crustacea. 100 mg/l Daphnia magna

12.2. Persistence and degradability.

The surfactants contained in this product comply with the biodegradability criteria set out in Regulation (EC) No 648/2004 on detergents. The data supporting this declaration shall be made available to the competent authorities of the Member States and shall be provided to them at their direct request or at the request of the detergent manufacturer.

DISODIUM METASILICATE PENTAHYDRATE

Biodegradability: Information not available.

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Rapidly biodegradable.

SUFONIC ACIDS, C14-17- SEC-ALKANE, SODIUM SALTS

Rapidly biodegradable.

SODIUM HYDROXIDE

Solubility in water. > 10000 mg/l

Biodegradability: Information not available.

2-BUTOXYETHANOL

Solubility in water. mg/l 1000 - 10000

Rapidly biodegradable.

12.3. Bioaccumulative potential.



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SUFONIC ACIDS, C14-17-
SEC-ALKANE, SODIUM
SALTS

Partition coefficient: n-
octanol/water. 0,2 Log Kow

2-BUTOXYETHANOL

Partition coefficient: n-
octanol/water. 0,81

12.4. Mobility in soil.

ALCOHOLS, C12-14,
ETHOXYLATED,
SULFATES, SODIUM SALTS

Partition coefficient:
soil/water. 191 l/kg

SUFONIC ACIDS, C14-17-
SEC-ALKANE, SODIUM
SALTS

Partition coefficient:
soil/water. 50 l/kg

2-BUTOXYETHANOL

Partition coefficient:
soil/water. 67 l/kg

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.



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14.1. UN number.

ADR / RID, IMDG, 1719
IATA:

14.2. UN proper shipping name.

ADR / RID: CAUSTIC
ALKALI LIQUID,
N.O.S. MIXTURE
IMDG: CAUSTIC
ALKALI LIQUID,
N.O.S. MIXTURE
IATA: CAUSTIC
ALKALI LIQUID,
N.O.S. MIXTURE

14.3. Transport hazard class(es).

ADR / RID: Class: 8 Label: 8
IMDG: Class: 8 Label: 8
IATA: Class: 8 Label: 8

**14.4. Packing group.**

ADR / RID, IMDG, III
IATA:

14.5. Environmental hazards.

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user.

ADR / RID: HIN - Kemler: 80
Special Provision: -
IMDG: EMS: F-A, S-B
IATA: Cargo:
Pass.:

Limited
Quantities: 5
L

Tunnel
restriction
code: (E)

Limited
Quantities: 5
L
Maximum
quantity: 60 L

Maximum
quantity: 5 L

Packaging
instructions:
856
Packaging
instructions:
852



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Special Instructions:

A3, A803

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.
Point. 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.



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Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).



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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.