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# Safety data sheet

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

# 1.1. Product identifier

Product name KISS MAGNOLIA 5-C

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

Intended use DETERGENT ONLY FOR INDUSTRIAL / PROFESSIONAL USING

DETERGENT GYNIUS SYSTEM-SCENTED MAINTAINER DETERGENT CONCENTRATED

### 1.3. Details of the supplier of the safety data sheet

Name AR-CO CHIMICA S.R.L.
Full address Via Canalazzo 22/24
District and Country 41036 MEDOLLA (MO)

**ITALY** 

Tel. +39 053558890 Fax +39 053558898

e-mail address of the competent person

responsible for the Safety Data Sheet reach@arcochimica.it
Product distribution by RR-CO CHIMICA

# 1.4. Emergency telephone number

For urgent inquiries refer to

Numeri telefonici dei principali Centri Antiveleni italiani ( attivi 24/24 ore)Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca` Granda -Milano) (H24)Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)AR-CO CHIMICA+39 053558890 (

# **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.

ORE UFFICIO / OFFICE HOURS 08:00-12:30 / 14:00-17:30 )

# ${\bf 2.1.1.}\ Regulation\ {\bf 1272/2008}\ ({\bf CLP})\ and\ following\ amendments\ and\ adjustments.$

Hazard classification and indication:

 Eye Dam. 1
 H318

 Skin Irrit. 2
 H315

 Skin Sens. 1A
 H317

 Aquatic Chronic 3
 H412

# 2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols:

Xi

R phrases:

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36-52/53

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

### 2.2. Label elements.

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





Signal words: Danger

H318 Causes serious eye damage.
H315 Causes skin irritation.

**H317** May cause an allergic skin reaction.

**H412** Harmful to aquatic life with long lasting effects.

EUH208 Contains

(R)-P-MENTHA-1,8-DIENE

May produce an allergic reaction.

**P273** Avoid release to the environment.

**P280** Wear protective gloves / protective clothing / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P310 Immediately call a POISON CENTER or doctor / physician.

Contains: BRANCHED ALKYL ALCOHOL (C11-C13) ETHOXYLATES

2-(4-METHYLCYCLOHEX-3-EN-1-YL)PROPAN-2-OL

# 2.3. Other hazards.

Information not available.

# **SECTION 3. Composition/information on ingredients.**

# 3.1. Substances.

Information not relevant.

# 3.2. Mixtures.

Contains:

Identification. Conc. %. Classification 67/548/EEC. Classification 1272/2008 (CLP). PROPAN-2-OL

CAS. 67-63-0 5 - 9 R67, F R11, Xi R36 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3

EC. 200-661-7 INDEX. 603-117-00-0

Reg. no. 01-2119457558-25

KISS	Printed on 21/10/2014		
11.00	, tortoli, t		Page n. 3/13
2-BUTOXYETHANOL			
CAS. 111-76-2	5 - 9	Xn R20/21/22, Xi R36/38	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			
BRANCHED ALKYL ALCOHOL (C11-C13) ETHOXYLATES			
CAS. 68439-54-3	3 - 5	Xn R22, Xi R41	Acute Tox. 4 H302, Eye Dam. 1 H318
EC. 931-985-3			
INDEX			
Reg. no. NO REGISTRATION NUMBER (POLYMER) COCOA FATTY ACIDS, POTASSIUM SALTS			
CAS. 61789-30-8	1 - 5	Xi R36/38	Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC. 263-049-9	-		
INDEX			
1-METHOXY-2-PROPANOL			
CAS. 107-98-2 EC. 203-539-1	0,5 - 1	R10, R67	Flam. Liq. 3 H226, STOT SE 3 H336
INDEX. 603-064-00-3			
Reg. no. 01-2119457435-35-xxxx			
2-(4-METHYLCYCLOHEX-3-EN-1-YL)PROPAN-2	2-		
<b>OL</b> CAS. 8000-41-7	0,1 - 0,5	Xi R36/38, Xi R43, N R51/53	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1A
EC. 232-268-1	3,. 3,3		H317, Aquatic Chronic 2 H411
INDEX			
(R)-P-MENTHA-1,8-DIENE			
CAS. 5989-27-5	0,25 - 0,5	R10, Xn R65, Xi R38, Xi R43, N R50/53, Note C	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic
EC. 227-813-5			Chronic 1 H410, Note C
INDEX. 601-029-00-7			
Reg. no. 01-2119493353-35-xxxx			
2-Acetylnaphthalene			
CAS. 93-08-3 EC. 202-216-2	0 - 0,5	N R51/53	Aquatic Chronic 2 H411
INDEX			
AMYL SALICYLATE R50/53			
CAS. 2050-08-0 EC	0 - 0,25	N R50/53	Aquatic Chronic 1 H410
INDEX			
PHENYL ETHER R50/53			
CAS. 101-84-8	0 - 0,25	N R50/53	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1
EC			H410
INDEX			
2-ETHOXYNAPHTALENE			
CAS. 93-18-5 EC. 202-226-7	0 - 0,5	Xi R38, N R51/53	Skin Irrit. 2 H315, Aquatic Chronic 2 H411
INDEX			
Note: Upper limit is not included into the range.			

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

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

# **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.**

# 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.

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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.

# **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:

United Kingdom EH40/2005 Workplace exposure limits. Containing the list of workplace exposure

limits for use with the Control of Substances Hazardous to Health Regulations (as

amended).

Éire Code of Practice Chemical Agent Regulations 2011.

OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive

2000/39/EC.

TLV-ACGIH ACGIH 2012

P	R	0	P	A	N	-2	2-	0	L	

Threshold Limit Value. Type	Country	TWA/8h	STEL/15min	STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
WEL	UK	999	400	1250	500		

### Revision nr. 1 AR-CO CHIMICA S.R.L. Dated 16/10/2014 Printed on 21/10/2014 KISS MAGNOLIA 5-C Page n. 6/13 OFI IRI 200 400 SKIN TLV-ACGIH 200 400 492 983 2-BUTOXYETHANOL Threshold Limit Value. TWA/8h STEL/15min Type Country mg/m3 mg/m3 ppm ppm WEL UK 123 25 246 50 SKIN OFI IRL 98 20 246 50 SKIN TLV-ACGIH 97 20 OEL FU SKIN 98 20 246 50 1-METHOXY-2-PROPANOL Threshold Limit Value. TWA/8h STEL/15min Type Country mg/m3 mg/m3 ppm ppm WEL UK 375 100 560 150 SKIN IRL OEL 375 100 568 150 ΕU OEL 375 100 568 150 SKIN TLV-ACGIH 369 100 553 150 2-(4-METHYLCYCLOHEX-3-EN-1-YL)PROPAN-2-OL Predicted no-effect concentration - PNEC. Normal value for the terrestrial compartment 0.052 mg/kg 0.062 Normal value in fresh water mg/l Normal value in marine water 0.062 mq/l Normal value for fresh water sediment 0,442 mg/kg Normal value for marine water sediment 0,044 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers. workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic VND Oral. 2,5 mg/kg VND 0,42 mg/kg VND Inhalation 1,25 mg/m3 VND 1,25 mg/m3 VND 5,8 mg/m3 VND 5,8 mg/m3 VND Skin. VND 2,5 mg/kg VND 0,42 mg/kg 5 mg/kg VND 1,17 mg/kg 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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

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.

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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.

### SKIN PROTECTION

Wear category II 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.

# **SECTION 9. Physical and chemical properties.**

# 9.1. Information on basic physical and chemical properties.

Appearance liquid Colour orange Odour MAGNOLIA Odour threshold. Not available. 8,40 +/- 0,50 Melting point / freezing point. Not available. Initial boiling point. Not available. Boiling range. Not available. Flash point. Not available. Evaporation Rate Not available. Flammability of solids and gases 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. 1,000 +/- 0,025

Solubility COMPLETELY SOLUBLE IN WATER

Partition coefficient: n-octanol/water
Auto-ignition temperature.

Decomposition temperature.

Viscosity

Explosive properties

Oxidising properties

Not available.

Not available.

Not available.

Not available.

Not available.

# 9.2. Other information.

Information not available.

# SECTION 10. Stability and reactivity.

# 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.

1-METHOXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may

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slowly form explosive peroxides.

### 10.2. Chemical stability.

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

# 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

2-BUTOXYETHANOL: can react dangerously with: aluminium, oxidising agents. Forms peroxide with air. 1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

### 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

2-BUTOXYETHANOL: avoid exposure to sources of heat and naked flames. 1-METHOXY-2-PROPANOL: avoid exposure to the air.

### 10.5. Incompatible materials.

1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

### 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

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 may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory trait. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

2-(4-METHYLCYCLOHEX-3-EN-1-YL)PROPAN-2-OL LD50 (Oral). > 2000 mg/kg ratto LD50 (Dermal). > 2000 mg/kg coniglio

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LC50 (Inhalation). > 4,76 mg/l ratto

### 2-BUTOXYETHANOL

LD50 (Oral). 615 mg/kg Rat

LD50 (Dermal). 405 mg/kg Rabbit

LC50 (Inhalation). 2,2 mg/l/4h Rat

# 1-METHOXY-2-PROPANOL

LD50 (Oral). 5300 mg/kg Rat

LD50 (Dermal). 13000 mg/kg Rabbit

LC50 (Inhalation). 54,6 mg/l/4h Rat

# PROPAN-2-OL

LD50 (Oral). 4710 mg/kg Rat

LD50 (Dermal). 12800 mg/kg Rat

LC50 (Inhalation). 72,6 mg/l/4h Rat

# **SECTION 12. Ecological information.**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. 12.1. Toxicity.

# 2-(4-METHYLCYCLOHEX-3-EN-1-YL)PROPAN-2-OL

LC50 - for Fish.

> 62,8 mg/l/96h Pesce Brachydanio rerio

EC50 - for Crustacea.

> 73 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants.

> 68 mg/l/72h Alga Pseudokirchneriella subcapitata

# (R)-P-MENTHA-1,8-DIENE

LC50 - for Fish.

35 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea.

0,48 mg/l/48h

# 12.2. Persistence and degradability.

Information not available.

# 12.3. Bioaccumulative potential.

Information not available.

# 12.4. Mobility in soil.

Information not available.

# 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.**

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### 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.

Avoid littering. Do not contaminate soil, sewers and waterways.

CONTAMINATED PACKAGING

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

# **SECTION 14. Transport information.**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

SECTION 15. Regulatory information.
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Restrictions	relating to the	product or co	ntained substa	ances pursu	ant to Annex	XVII to EC	Regulation	1907/2006.
	-						<del>-</del>	
Product.								

None.

3

Substances in Candidate List (Art. 59 REACH).

None.

Point.

Seveso category.

Substances subject to authorisarion (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.

Ingredients according to Regulation (EC) No 648/2004

less than 5 % non-ionic surfactants, soap

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perfumes, Citral, Coumarin, Eugenol, Geraniol, Isoeugenol, Limonene, Linalool

preservation agents: 1,2-benzisotiazol-3(2H)-one / 2-metil-2H-isotiazol-3-one

### 15.2. Chemical safety assessment.

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

# **SECTION 16. Other information.**

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

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 4 Acute toxicity, category 4

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1A Skin sensitization, category 1A

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H318 Causes serious eye damage.H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10 FLAMMABLE.

R11 HIGHLY FLAMMABLE.

R20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

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HARMFUL IF SWALLOWED.

R36 IRRITATING TO EYES.

R36/38 IRRITATING TO EYES AND SKIN.

R38 IRRITATING TO SKIN

R41 RISK OF SERIOUS DAMAGE TO EYES.

R43 MAY CAUSE SENSITISATION BY SKIN CONTACT.

R50/53 VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE R51/53

EFFECTS IN THE AQUATIC ENVIRONMENT.

R52/53 HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED. R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

### LEGEND:

R22

- 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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