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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

IRIS DEO LAVANDA SPRAY 400 mL

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

Intended use PROFESSIONAL CLEANING PRODUCT

Identified Uses	Industrial	Professional	Consumer
	❖	✓	-
1.3. Details of the supplier of the safety data sheet Ragione Sociale Indirizzo Località e Stato	AR-CO CHIMICA S.R.L. Via Canalazzo 22/24 41036 MEDOLLA (MO) ITALY		
	tel. +39 053558890		
	fax +39 053558898		
e-mail della persona competente,			
responsabile della scheda dati di sicurezza	reach@arcochimica.it		

#### 1.4. Emergency telephone number

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

# **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.

#### 2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

Aerosol, category 1	H222 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

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

Danger Symbols:

F+

R phrases:

12

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.

Hazard pictograms:





Signal words: Danger

Hazard statements:

**H222** Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.
H317 May cause an allergic skin reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

**P280** Wear protective gloves.

P302+P352 IF ON SKIN: wash with plenty of water / . . .
P333+P313 If skin irritation or rash occurs: get medical advice.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

#### 2.3. Other hazards.

Information not available.

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

#### 3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

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1		Salety data Silect						
	Identification. BUTANE	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).				
	CAS. 106-97-8 EC. 203-448-7	50 - 75	F+ R12, Note C U	Flam. Gas 1 H220, Note C U				
	INDEX. 601-004-00-0							
	Reg. no. 01-2119474691-32-xxxx							
	PROPANE							
	CAS. 74-98-6 EC. 200-827-9	30 - 50	F+ R12, Note U	Flam. Gas 1 H220, Note U				
	INDEX. 601-003-00-5							
	Reg. no. 01-2119486944-21-xxxx							
	PROPAN-2-OL							
	CAS. 67-63-0	5 - 10	F R11, Xi R36, R67	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336				
	EC. 200-661-7							
	INDEX. 603-117-00-0							
	Reg. no. 01-2119457558-25							
	IsoBUTANE							
	CAS. 75-28-5 EC. 200-857-2	1 - 5	F+ R12, Note C	Flam. Gas 1 H220, Note C				
	INDEX. 601-004-00-0							
	ACETONE							
	CAS. 67-64-1	1 - 5	F R11, Xi R36, R66, R67, Note P	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, Note P				
	EC. 200-662-2							
	INDEX. 606-001-00-8							
	Reg. no. 01-2119471330-49							
	ETHANOL		E D44	Flow Lin 0 HOOF				
	CAS. 64-17-5 EC. 200-578-6	1 - 5	F R11	Flam. Liq. 2 H225				
	INDEX. 603-002-00-5							

Note: Upper limit is not included into the range.

Reg. no. 01-2119457290-43

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture.

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. 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.

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.

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions.

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up.

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Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. 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.

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

### 7.2. Conditions for safe storage, including any incompatibilities.

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C, away from any combustion sources.

#### 7.3. Specific end use(s).

Information not available.

# **SECTION 8. Exposure controls/personal protection.**

#### 8.1. Control parameters.

Regulatory References:

BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
CHE	Suisse / Schweiz	Valeurs limites d`exposition aux postes de travail 2012. / Grenzwerte am Arbeitsplatz
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	Publicación: Límites de Exposición Profesional para Agentes Químicos en Espana 2012
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRB	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

#### **BUTANE**

**Threshold Limit Value.** 

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						Page n. 6/14	
Type Country TWA/8h STEL/15min							
		mg/m3	ppm	mg/m3	ppm		
VLEP	BEL		1000			SKIN.	
VEL	CHE	1900	800				
MAK	CHE	1900	800				
AGW	DEU	2400	1000	9600	4000		
MAK	DEU	2400	1000	9600	4000		
VLA	ESP		800				
VLEP	FRA	1900	800				
WEL	GRB	1450	600	1810	750		
TLV	GRC	2350	1000				
OEL	IRL		1000		750		
TLV-ACGIH				2377	1000		
PROPANE							
Threshold Limit Value.	0 1	TIA / A / O I		OTEL 45 :			
Type	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	1800	1000	7200	4000		
MAK	DEU	1800	1000	7200	4000		
TLV	GRC	1800	1000				
TLV-ACGIH			1000				
PROPAN-2-OL Threshold Limit Value.							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
VLEP	BEL	500	200	1000	400		
AGW	DEU	500	200	1000	400		
MAK	DEU	500	200	1000	400		
VLA	ESP	500	200	1000	400		
VLEP	FRA			980	400		
WEL	GRB	999	400	1250	500		
TLV	GRC	980	400	1225	500		
OEL	IRL		200		400	SKIN.	
TLV-ACGIH		492	200	983	400		
ACETONE							
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min			
туре	Country		nnm				
VLEP	BEL	mg/m3 1210	ppm 500	mg/m3 2420	ppm 1000		
VEL	CHE	1200	500	2400	1000		
MAK	CHE	1200	500	2400	1000		
AGW	DEU	1200	500	2400	1000		
MAK	DEU	1200	500	2400	1000		
VLA	ESP	1210	500				

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			Safety data sheet		
VLEP	FRA	1210	500	2420	1000
WEL	GRB	1210	500	3620	1500
TLV	GRC	1780		3560	
OEL	IRL	1210	500		
TLV	ITA	1210	500		
OEL	EU	1210	500		
TLV-ACGIH		1187	500	1781	750

ETHANOL Threshold Limit Value.					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	BEL	1907	1000		
AGW	DEU	960	500	1920	1000
MAK	DEU	960	500	1920	1000
VLA	ESP	1910	1000		
VLEP	FRA	1900	1000	9500	5000
WEL	GRB	1920	1000		
TLV	GRC	1900	1000		
OEL	IRL				1000
TLV-ACGIH				1884	1000

Legend:

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

#### 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

None required.

#### 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 airtight protective 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, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

ENVIRONMENTAL EXPOSURE CONTROLS.

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

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

#### 9.1. Information on basic physical and chemical properties.

Appearance aerosol Colour colourless characteristic Odour Odour threshold. Not available Not available. Melting point / freezing point. < -8 °C. Initial boiling point. Not available. Boiling range. Not available. < -35 °C. Flash point. **Evaporation Rate** Not available. Flammability of solids and gases flammable gas Lower inflammability limit. 1,8 % (V/V). Upper inflammability limit. 9,5 % (V/V). Lower explosive limit. Not applicable. Upper explosive limit. Not applicable. 3,8 mmHg Vapour pressure. Vapour density < 1 (ARIA = 1)Relative density. 0,6 Kg/l Solubility soluble in water Partition coefficient: n-octanol/water 2,35 - 2,89 Auto-ignition temperature. > 270 °C. Decomposition temperature. Not available. Not available. Viscosity Explosive properties not applicable Oxidising properties not applicable

#### 9.2. Other information.

Molecular weight. 54,072 Solid content. 0,80 %

VOC (Directive 1999/13/EC): 100,00 % - 600,00 g/litre.

VOC (volatile carbon): 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.

ACETONE: decomposes under the effect of heat.

### 10.2. Chemical stability.

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

### 10.3. Possibility of hazardous reactions.

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

ETHANOL: risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride (with acids), concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver and nitric acid, silver nitrate, and ammonia, silver oxide and ammonia, strong oxidising agents, nitrogen dioxide. Can react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, oxiranes, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms an explosive mixture with the air.

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

#### 10.4. Conditions to avoid.

Avoid overheating.

ETHANOL: avoid exposure to sources of heat and naked flames. ACETONE: avoid exposure to sources of heat and naked flames.

#### 10.5. Incompatible materials.

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

ACETONE: acid and oxidising substances.

#### 10.6. Hazardous decomposition products.

ACETONE: ketenes and other irritating compounds.

# **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.

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.

ETHANOL LD50 (Oral).> 5000 mg/kg Rat LC50 (Inhalation).120 mg/l/4h Pimephales promelas

PROPAN-2-OL LD50 (Oral).4710 mg/kg Rat LD50 (Dermal).12800 mg/kg Rat

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

# **SECTION 12. Ecological information.**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity.

**ACETONE** 

LC50 - for Fish. 4144 mg/l/96h Pesce EC50 - for Crustacea. 1680 mg/l/48h Daphnia

12.2. Persistence and degradability.

**BUTANE** 

Solubility in water. mg/l 0,1 - 100

Rapidly biodegradable.

**PROPANE** 

Solubility in water. mg/l 0,1 - 100

Rapidly biodegradable.

**ETHANOL** 

Solubility in water. mg/l 1000 - 10000

Rapidly biodegradable.

PROPAN-2-OL

Rapidly biodegradable.

**ACETONE** 

Rapidly biodegradable.

12.3. Bioaccumulative potential.

**BUTANE** 

Partition coefficient: n- 1,09

octanol/water.

**PROPANE** 

Partition coefficient: n- 1,09

octanol/water.

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**ETHANOL** 

Partition coefficient: n- -0,35

octanol/water.

PROPAN-2-OL

Partition coefficient: n- 0,05

octanol/water.

**ACETONE** 

Partition coefficient: n- -0,23

octanol/water.

BCF. 3

12.4. Mobility in soil.

Information not available.

#### 12.5. Results of PBT and vPvB assessment.

Information not available.

#### 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.

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

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.**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road	and	rail	traı	nsp	ort:
_					<u> </u>

ADR/RID Class: 2 UN:

Packing Group: Label: 2.1
Nr. Kemler: --

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Limited Quantity. 1 L
Tunnel restriction code. (D)

Proper Shipping Name: AEROSOLS

Carriage by sea (shipping):

IMO Class: 2.1 UN: 1950

 Packing Group:

 Label:
 2.1

 EMS:
 F-D, S-U

 Marine Pollutant.
 NO

Proper Shipping Name: AEROSOLS

Transport by air:

IÁTA: 2 UN: 1950

Packing Group: Label: 2.1

Cargo:

Packaging instructions: 203 Maximum quantity: 150 Kg

Pass.:

Packaging instructions: 203 Maximum quantity: 75 Kg

Special Instructions: A145, A167, A802
Proper Shipping Name: AEROSOLS

# **SECTION 15. Regulatory information.**

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

Seveso category. 8

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

None.

Substances in Candidate List (Art. 59 REACH).

None.

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:

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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.**

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

Flam. Gas 1 Flammable gas, category 1

Aerosol 1 Aerosol, category 1
Aerosol, category 3

Flam. Liq. 2 Flammable liquid, category 2

Eye Irrit. 2 Eye irritation, category 2

Skin Sens. 1 Skin sensitization, category 1

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

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

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

**H229** Pressurised container: may burst if heated.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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

H411 Toxic to aquatic life with long lasting effects.

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

R11 HIGHLY FLAMMABLE.
R12 EXTREMELY FLAMMABLE.
R36 IRRITATING TO EYES.

REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number

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- 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).

#### GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments 3. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 4. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 5. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 6. Regulation (EU) 453/2010 of the European Parliament
- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 8. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 9. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 10. Regulation (EÚ) 944/2013 (V Atp. CLP) of the European Parliament
- 11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
  Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

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.

Changes to previous review:

The following sections were modified:

02 / 08 / 09 / 12 / 15.