Lime Remover (Limpiador Antical)
Code: 14/070

Version: 2 Revision: 16/09/2013 Previous revision: 13/12/2011 Date of printing: 07/04/2014

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

1.1 PRODUCT IDENTIFIER: Lime Remover (Limpiador Antical)
Code: 14/070

1.2 RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:
Intended uses (main technical functions): [_] Industrial [X] Professional [X] Consumers
Cleaner.
Uses advised against:
None. As there is not classified as dangerous, this product can be used in ways other than the identified uses, but all uses have to be consistent with the safety guidelines provided.
Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:
Not applicable.

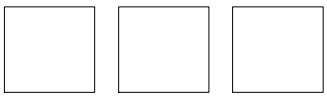
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
NAUTIEL SERVICE, S.L.
Pg. Joan de Borbó, 92 - 08003 Barcelona
Phone: +34 93 2210869
E-mail address of the person responsible for the safety data sheet:
nautiel-service@nautiel.com

1.4 EMERGENCY TELEPHONE NUMBER: +34 93 5880846 (9:00-13:00 / 15:00-18:00 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
This product is not classified as dangerous. in accordance with Directive 1999/45/EC~2006/8/EC

2.2 LABEL ELEMENTS:



This product does not require pictograms, in accordance with Directive 67/548/EEC~2009/2/EC and 1999/45/EC~2006/8/EC

R-phrases:
None.
S-phrases:
S2 Keep out of reach of children.
S25 Avoid contact with eyes.
Supplementary statements:
P153 Contains cationic surfactants < 5 %, non-ionic surfactants < 5 %, LIMONENE. Do not swallow.
Hazardous ingredients:
None.

2.3 OTHER HAZARDS:
Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:
Other physicochemical hazards: Not applicable.
Other adverse human health effects: # *Prolonged exposure to vapours may produce transient drowsiness. In case of prolonged contact, the skin may become dry.*
Other negative environmental effects: Not applicable.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:
Not applicable (mixture).

3.2 MIXTURES:
This product is a mixture.
Chemical description:
Mixture of chemical substances in aqueous media.
Hazardous ingredients:
Substances taking part in a percentage higher than the exemption limit:

2,5 < 5 % Citric acid
CAS: 77-92-9 , EC: 201-069-1 — Autoclassified
DSD: Xi:R36 — < REACH
CLP: Eye Irrit. 2:H319 — < REACH

1 < 2,5 % C8-C18-alkylbenzyldimethylammonium chloride
CAS: 63449-41-2 , EC: 264-151-6 — Index No. 612-140-00-5
DSD: Xn:R21/22 | C:R34 | N:R50 — < ATP24
CLP: Acute Tox. (skin) 4:H312 | Acute Tox. (oral) 4:H302 | Skin Corr. 1B:H314 | Aquatic Acute 1:H400 — < CLP00

1 < 2,5 % Isopropyl alcohol
CAS: 67-63-0 , EC: 200-661-7 — Index No. 603-117-00-0
DSD: F:R11 | Xi:R36 | R67 — < ATP30
CLP: Flam. Liq. 2:H225 | Eye Irrit. 2:H319 | STOT SE (narcosis) 3:H336 — < ATP01

Impurities:
Does not contain other components ot impurities which will influence the classification of the profuct.

Reference to other sections:
For more information, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):
List updated by ECHA on 20/06/2013.
Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:
None
Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:
None

Hazardous ingredients:
Substances taking part in a percentage higher than the exemption limit:

2,5 < 5 % Citric acid
CAS: 77-92-9 , EC: 201-069-1 — Autoclassified
DSD: Xi:R36 — < REACH
CLP: Eye Irrit. 2:H319 — < REACH

1 < 2,5 % C8-C18-alkylbenzyldimethylammonium chloride
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DSD: Xn:R21/22 | C:R34 | N:R50 — < ATP24
CLP: Acute Tox. (skin) 4:H312 | Acute Tox. (oral) 4:H302 | Skin Corr. 1B:H314 | Aquatic Acute 1:H400 — < CLP00

1 < 2,5 % Isopropyl alcohol
CAS: 67-63-0 , EC: 200-661-7 — Index No. 603-117-00-0
DSD: F:R11 | Xi:R36 | R67 — < ATP30
CLP: Flam. Liq. 2:H225 | Eye Irrit. 2:H319 | STOT SE (narcosis) 3:H336 — < ATP01

Impurities:
Does not contain other components ot impurities which will influence the classification of the profuct.

Reference to other sections:
For more information, see sections 8, 11, 12 and 16.

SECTION 4 : FIRST AID MEASURES

4.1
4.2 DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	# *Normaly does not produce symptoms.*	# *Should there be any symptoms, transfer the person affected to the open air.*
Skin:	# *Normaly does not produce symptoms.*	# *Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and a solution of 5% sodium bicarbonate. Finally, rewash the affected area with soap and water.*
Eyes:	# *Normaly does not produce symptoms.*	# *Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. Remove contact lenses. Call a physician immediately.*
Ingestion:	# *If swallowed in high doses, may cause gastrointestinal disturbances.*	If swallowed, seek immediate medical attention. Due to its acid condition, the effects can be reduced to a minimum by drinking plenty of water, to which milk of magnesia has been added. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

Substances taking part in a percentage higher than the exemption limit:

< 0,015 % (R)-p-mentha-1,8-diene
CAS: 5989-27-5 , EC: 227-813-5 Index No. 601-029-00-7
DSD: R10 | Xi:R38 | R43* | N:R50-53 < ATP24
CLP: Flam. Liq. 3:H226 | Skin Irrit. 2:H315 | Skin Sens. 1:H317 | Asp. Tox. 1:H304 | Aquatic Acute 1:H400 | Aquatic Chronic 1:H410 < Autoclasificada

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Notes to physician: Damage caused by detergents and tensioactives to intestinal mucus is irreversible. Do not induce vomiting. Pump out stomach prior to the addition of dimeticone (antifrothing agent).
Antidotes and contraindications: # *Not available.*

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:
Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides, halogenated compounds, hydrochloric acid. Exposure to combustion or decomposition products may be a hazard to health.

5.3 ADVICE FOR FIREFIGHTERS:
Special protective equipment: # *Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.*
Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
Avoid direct contact with this product.

6.2 ENVIRONMENTAL PRECAUTIONS:
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc..). Transfer to a suitable container for recovery or elimination. Neutralize with carbonate or sodium bicarbonate. Keep the remains in a closed container. Finally, clean up the area with plenty of water.

6.4 REFERENCE TO OTHER SECTIONS:
For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7 : HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:
Comply with the existing legislation on health and safety at work.
General recommendations:
Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
Not applicable.
Recommendations for the prevention of toxicological risks:
Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Prevent unauthorized access. Keep out of reach of children. Keep away from sources of heat. If possible, avoid direct contact with sunlight. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

Class of store	:	# *According to current legislation.*
Maximum storage period	:	24. months
Temperature interval	:	min: 4. ºC, max: 40. ºC

Incompatible materials:
Keep away from reducing agents, oxidizing agents, acids, alkalis, metals.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:
Not applicable.

7.3 SPECIFIC END USES:
For the use of this product do not exist particular recommendations apart from that already indicated.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689 standard concerning methods for assesing the exposure by inhalation to chemical agents and national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2011	Year	TLV-TWA ppm	TLV-TWA mg/m3	TLV-STEL ppm	TLV-STEL mg/m3	Observations
Alcohol isopropílico	2003	200.	491.	400.	982.	A4
(R)-p-menta-1,8-dieno		290.	-	-	-	Internal value

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.
A4 - Non classified as carcinogenic in humans.

BIOLOGICAL LIMIT VALUES:
Not available

DERIVED NO-EFFECT LEVEL (DNEL):
Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Oral mg/kg bw/d
Derived no-effect level, workers: - Systemic effects, acute and chronic: Not available (withoud data of registration REACH).	- -	- -	- -
Derived no-effect level, workers: - Local effects, acute and chronic: Not available (withoud data of registration REACH).	DNEL Inhalation mg/m3 - -	DNEL Cutaneous mg/cm2 - -	DNEL Eyes mg/cm2 - -
Derived no-effect level, general population: - Systemic effects, acute and chronic: Not available (withoud data of registration REACH).	DNEL Inhalation mg/m3 - -	DNEL Cutaneous mg/kg bw/d - -	DNEL Oral mg/kg bw/d - -
Derived no-effect level, general population: - Local effects, acute and chronic: Not available (withoud data of registration REACH).	DNEL Inhalation mg/m3 - -	DNEL Cutaneous mg/cm2 - -	DNEL Eyes mg/cm2 - -

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

	PNEC Fresh water mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l
Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermitent release: Not available (withoud data of registration REACH).	-	-	-
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Not available (withoud data of registration REACH).	PNEC STP mg/l -	PNEC Sediments mg/kg dry weight -	PNEC Sediments mg/kg dry weight -
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans: Not available (withoud data of registration REACH).	PNEC Air mg/m3 -	PNEC Soil mg/kg dry weight -	PNEC Oral mg/kg bw/d -

8.2 EXPOSURE CONTROLS:

ENGINEERING MEASURES:


Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system:
Protection of eyes and face: # *It is recommended to dispose of water taps or sources with clean water close to the working area.*
Protection of hands and skin: # *It is recommended to dispose of water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.*

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:
As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:	No, unless ventilation is insufficient.
Goggles:  ✓	# *Safety goggles with suitable lateral protection (EN166).*
Face shield:	No.
Gloves:  ✓	# *Gloves resistant against chemicals (EN374). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.*
Boots:	No.
Apron:	No.
Clothing:	No.

Thermal hazards:
Not applicable.

ENVIRONMENTAL EXPOSURE CONTROLS:
Avoid any spillage in the environment.
Spills on the soil: Prevent contamination of soil.
Spills in water: # *Do not allow to escape into drains, sewers or water courses.*
Emissions to the atmosphere: # *Not applicable.*

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance		
- Physical state	:	Clear liquid.
- Colour	:	Blue.
- Odour	:	Citric.
- Odour threshold	:	# *Not available (mixture).*
pH-value		
- pH	:	# *3.9 ± 0.4* # *50 g/l at 20ºC*
Change of state		
- Melting point	:	# *Not available*
- Initial boiling point	:	# *Not applicable*
Density		
- Relative density	:	1.02 ± 0.02 at 20/4ºC Relative water
Stability		
- Decomposition temperature	:	# *Not applicable*
Viscosity:		
- Viscosity (flow time)	:	Not available
Volatility:		
- Vapour pressure	:	# *Not available*
Solubility(ies)		
- Solubility in water:	:	# *Miscible*
- Solubility in oils and fats:	:	# *Not available*
Flammability:		
- Flash point	:	Not applicable
- Autoignition temperature	:	Not applicable

Explosive properties:
Not available.
Oxidizing properties:
Not available.

9.2 OTHER INFORMATION:

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:
Not available.
Corrosivity to metals: Not available
Pyrophorical properties: # *It is not pyrophoric.*

10.2 CHEMICAL STABILITY:
Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:
Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis, metals.

10.4 CONDITIONS TO AVOID:
Heat: Keep away from sources of heat.
Light: If possible, avoid direct contact with sunlight.
Air: Not applicable.
Pressure: Not applicable.
Shock: Not applicable.

10.5 INCOMPATIBLE MATERIALS:
Keep away from reducing agents, oxidizing agents, acids, alkalis, metals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:
As consequence of thermal decomposition, hazardous products may be produced: nitrogen oxides, hydrochloric acid, halogenated compounds.

SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients :	DL50 (OECD 401) mg/kg oral	DL50 (OECD 402) mg/kg cutaneous	CL50 (OECD 403) mg/m3.4h inhalation
Acido cítrico	3000. Rat	5500. Rat	
Cloruro de C8-C18-alquilbencildimetilamonio	240. Rat	1560. Rat	
Alcohol isopropílico	5045. Rat	12800. Rabbit	> 72600. Rat
(R)-p-menta-1,8-dieno	5600. Rat	> 2000. Rabbit	

No observed adverse effect level
Not available
Lowest observed adverse effect level
Not available

CMR EFFECTS:
Carcinogenic effects: # *Is not considered as a carcinogenic product.*
Genotoxicity: # *Is not considered as a mutagenic product.*
Toxicity for reproduction: # *Do not harm fertility. Do not harm the fetus developping.*
Effects via lactation: # *Not classified as a hazardous product for children breast-fed.*

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:
Routes of exposure:
Short-term exposure: May irritate the eyes and skin.
Long-term or repeated exposure:

ADDITIONAL INFORMATION:
Not available.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

12.1 TOXICITY:

Acute toxicity in aquatic environment for individual ingredients :	CL50 (OECD 203) mg/l.96hours		CE50 (OECD 202) mg/l.48hours		CE50 (OECD 201) mg/l.72hours	
Acido cítrico	440.	Fishes	120.	Daphnia	640.	Algae
Cloruro de C8-C18-alquilbencildimetilamonio	0.054	Fishes				
Alcohol isopropílico	9640.	Fishes	13300.	Daphnia	> 1000.	Algae
(R)-p-menta-1,8-dieno	0.72	Fishes	0.69	Daphnia	150.	Algae

No observed effect concentration
Not available

Lowest observed effect concentration
Not available

12.2 PERSISTENCE AND DEGRADABILITY:
Biodegradability: The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation 648/2004/EC on detergents: Ultimate aerobic biodegradation > 60% within 28 days. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.
Photodegradability: # *Not applicable.*

12.3 BIOACCUMULATIVE POTENTIAL:
Not available.

12.4 MOBILITY IN SOIL:
Not available.

12.5 RESULTS OF PBT AND MPMB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:
Not applicable.

12.6 OTHER ADVERSE EFFECTS:
Ozone depletion potential: # *Not available.*
Photochemical ozone creation potential: # *Not available.*
Earth global warming potential: # *In case of fire or incineration liberates CO2.*
Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC:
Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC:
Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification,)in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:
Controlled incineration in special facilities for chemical waste, but in accordance with local regulations. Contains halogenated compounds: In the case of incineration, take all necessary measures in order to avoid production and emission of furanes and dioxines into the atmosphere above the legal limits allowed.

Lime Remover (Limpiador Antical)
Code: 14/070

SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: Not applicable

14.2 UN PROPER SHIPPING NAME:
Free

14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:
14.4

Transport by road (ADR 2013):
Transport by rail (RID 2013):
Not reglamented

Transport by sea (IMDG 35-10):
Not reglamented

Transport by air (ICAO/IATA 2012):
Not reglamented

Transport by inland waterways (ADN):
Free.

14.5 ENVIRONMENTAL HAZARDS:
Not applicable.

14.6 SPECIAL PRECAUTIONS FOR USER:
Not applicable.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:
The regulations applicable to this product generally are listed throughout this material safety data sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Control of the risks inherent in major accidents (Seveso III):See section 7.2

OTHER REGULATIONS:
Not available

15.2 CHEMICAL SAFETY ASSESSMENT:
Not applicable (mixture).

Lime Remover (Limpiador Antical)
Code: 14/070

SECTION 16 : OTHER INFORMATION

16.1

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:
R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex III:
R10 Flammable. R11 Highly flammable. R34 Causes burns. R36 Irritating to eyes. R38 Irritating to skin. R43 May cause sensitization by skin contact. R50 Very toxic to aquatic organisms. R67 Vapours may cause drowsiness and dizziness. R21/22 Harmful in contact with skin and if swallowed. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard statements according the Regulation (EC) No. 1272/2008~790/2009 (CLP), Annex III:
H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

· European Chemicals Agency: ECHA, http://echa.europa.eu/
· Access to European Union Law, http://eur-lex.europa.eu/
· European Chemicals Bureau: Existing Chemicals, http://esis.jrc.ec.europa.eu/
· Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
· Threshold Limit Values, (AGCIH, 2011).
· European agreement on the international carriage of dangerous goods by road, (ADR 2013).
· International Maritime Dangerous Goods Code IMDG including Amendment 35-10 (IMO, 2010).

MATERIAL SAFETY DATA SHEET REGULATIONS:
Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.

HISTORY:	Revision:
Version: 1	13/12/2011
Version: 2	16/09/2013