



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

- 1.1 Product identifier:** D-15
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Cesspool and drainage cleaner  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
DUROSTICK SA  
PATIMA KOROREMI  
193 00 ASPROPIRGOS, ATTICA - GREECE  
Phone.: 211 60 03 500-599 -  
Fax: 210 55 99 612  
info@durostick.gr  
www.durostick.gr
- 1.4 Emergency telephone number:** 210 7793 777

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

#### Directive 67/548/EC and Directive 1999/45/EC:

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).

Carc. Cat 2: R45 - May cause cancer (Category 2)

Xi: R36/37/38 - Irritating to eyes, respiratory system and skin

Xn: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation, R65 - Harmful: may cause lung damage if swallowed

R10 - Flammable

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapours may cause drowsiness and dizziness

#### CLP Regulation (EC) n° 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3

Asp. Tox. 1: Aspiration hazard, Category 1

Carc. 1B: Carcinogenicity, Category 1B

Eye Dam. 1: Serious eye damage, Category 1

Flam. Liq. 3: Flammable liquids, Category 3

Muta. 2: Germ cell mutagenicity, Category 2

Skin Irrit. 2: Skin irritation, Category 2

STOT RE 1: Specific target organ toxicity, repeated exposure, Category 1

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3

### 2.2 Label elements:

#### Directive 67/548/EC and Directive 1999/45/EC:

In accordance with the legislation, the elements on the label are as follows:



#### R Phrases:

R10: Flammable

R36/37/38: Irritating to eyes, respiratory system and skin

R45: May cause cancer (Category 2)

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65: Harmful: may cause lung damage if swallowed

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapours may cause drowsiness and dizziness

#### S Phrases:

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SECTION 2: HAZARDS IDENTIFICATION (continue)

S2: Keep out of the reach of children  
S43: In case of fire, use polyvalent powder ABC  
S46: If swallowed, seek medical advice immediately and show this container or label

**Supplementary information:**

P95: For professional use only: "Warning -avoid exposure-. Obtain special instructions before use"

**Substances that contribute to the classification:**

Trichloroethylene, Dichloromethane, Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**CLP Regulation (EC) n° 1272/2008:**

**Danger**



**Hazard statements:**

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways  
Carc. 1B: H350 - May cause cancer  
Eye Dam. 1: H318 - Causes serious eye damage  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Muta. 2: H341 - Suspected of causing genetic defects  
Skin Irrit. 2: H315 - Causes skin irritation  
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure  
STOT SE 3: H335 - May cause respiratory irritation  
STOT SE 3: H336 - May cause drowsiness or dizziness

**Precautionary statements:**

P101: If medical advice is needed, have product container or label at hand  
P102: Keep out of reach of children  
P103: Read label before use  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

**Supplementary information:**

EUH066: Repeated exposure may cause skin dryness or cracking

**Substances that contribute to the classification**

Trichloroethylene, Dichloromethane, Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%); Ethoxylated Undecyl Alcohol

**Additional Labelling (Annex XVII, REACH):**

Restricted to professional users

**2.3 Other hazards:**

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical description:** Miscellaneous products

**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 79-01-6 EC: 201-167-4 Index: 602-027-00-9 REACH: 01-2119486979-08-XXXX	<b>Trichloroethylene</b> Directive 67/548/EC Regulation 1272/2008	ATP CLP00 24 - <75 %
	Carc. Cat 2: R45; Xi: R36/38; R52/53; R67 Aquatic Chronic 3: H412; Carc. 1B: H350; Eye Irrit. 2: H319; Muta. 2: H341; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger	

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)

Identification	Chemical name/Classification	Concentration
CAS: 75-09-2 EC: 200-838-9 Index: 602-004-00-3 REACH: 01-2119480404-41-XXXX	<b>Dichloromethane</b> Directive 67/548/EC Carc. Cat 3: R40; Xi: R36/37/38; R67 Regulation 1272/2008 Carc. 2: H351; Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335; STOT SE 3: H336 - Warning	24 - <75 % 
CAS: Non-applicable EC: 919-446-0 Index: Non-applicable REACH: 01-2119458049-33-XXXX	<b>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b> Directive 67/548/EC N: R51/53; Xn: R48/20, R65; R10; R66; R67 Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT RE 1: H372; STOT SE 3: H336 - Danger	19 - <24 % 
CAS: 127036-24-2 EC: Non-applicable Index: Non-applicable REACH: Non-applicable	<b>Ethoxylated Undecyl Alcohol</b> Directive 67/548/EC Xi: R41; Xn: R22 Regulation 1272/2008 Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	2,4 - <4,9 % 
CAS: 91-20-3 EC: 202-049-5 Index: 601-052-00-2 REACH: 01-2119561346-37-XXXX	<b>Naphthalene</b> Directive 67/548/EC Carc. Cat 3: R40; N: R50/53; Xn: R22 Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351 - Warning	0,09 - <0,24 % ATP CLP00 

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

##### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

##### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

##### By eye contact:

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

##### By consumption:

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive subproducts are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

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## SECTION 5: FIREFIGHTING MEASURES (continue)

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertizing agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

#### A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

#### B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

#### C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

#### A.- Technical measures for storage

Minimum Temp.:	5 °C
Maximum Temp.:	30 °C
Maximum time:	24 Months

#### B.- General conditions for storage

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**SECTION 7: HANDLING AND STORAGE (continue)**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the work environment

Identification		Environmental limits	
Naphthalene	IOELV (8h)	10 ppm	50 mg/m <sup>3</sup>
CAS: 91-20-3	IOELV (STEL)		
EC: 202-049-5	Year	2014	

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Trichloroethylene CAS: 79-01-6 EC: 201-167-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	53,7 mg/m <sup>3</sup>	Non-applicable	Non-applicable	Non-applicable
Dichloromethane CAS: 75-09-2 EC: 200-838-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4750 mg/kg	Non-applicable
	Inhalation	706 mg/m <sup>3</sup>	Non-applicable	353 mg/m <sup>3</sup>	Non-applicable
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) CAS: Non-applicable EC: 919-446-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	44 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	330 mg/m <sup>3</sup>	Non-applicable
Naphthalene CAS: 91-20-3 EC: 202-049-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	3,57 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	25 mg/m <sup>3</sup>	25 mg/m <sup>3</sup>

**DNEL (Population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Dichloromethane CAS: 75-09-2 EC: 200-838-9	Oral	Non-applicable	Non-applicable	0,06 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2395 mg/kg	Non-applicable
	Inhalation	353 mg/m <sup>3</sup>	Non-applicable	88,3 mg/m <sup>3</sup>	Non-applicable
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) CAS: Non-applicable EC: 919-446-0	Oral	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	71 mg/m <sup>3</sup>	Non-applicable

**PNEC:**

Identification				
Trichloroethylene CAS: 79-01-6 EC: 201-167-4	STP	Non-applicable	Fresh water	0,115 mg/L
	Soil	0,155 mg/kg	Marine water	Non-applicable
	Intermittent	Non-applicable	Sediment (Fresh water)	0,316 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Dichloromethane CAS: 75-09-2 EC: 200-838-9	STP	26 mg/L	Fresh water	0,54 mg/L
	Soil	0,583 mg/kg	Marine water	0,194 mg/L
	Intermittent	0,27 mg/L	Sediment (Fresh water)	4,47 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1,61 mg/kg
Naphthalene CAS: 91-20-3 EC: 202-049-5	STP	2,9 mg/L	Fresh water	0,0024 mg/L
	Soil	0,0533 mg/kg	Marine water	0,0024 mg/L
	Intermittent	0,02 mg/L	Sediment (Fresh water)	0,0672 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0672 mg/kg

**8.2 Exposure controls:**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**



**A.- General security and hygiene measures in the work place**

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using individual protection equipment they should have the ""CE marking"" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.  
All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.



**B.- Respiratory protection**

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

**C.- Specific protection for the hands**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	Replace the gloves at any sign of deterioration.



**D.- Ocular and facial protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against liquid splash		EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

**E.- Bodily protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing		EN ISO 13688:2013	For professional use only.
	Anti-slip work shoes		EN ISO 20347:2012 EN ISO 20344:2011	None

**F.- Additional emergency measures**

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

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

For complete information see the product datasheet.

#### Appearance:

Physical state at 20 °C: Liquid  
Appearance: Transparent  
Color:  Colourless  
Odor: Characteristic

#### Volatility:

Boiling point at atmospheric pressure: 65 °C  
Vapour pressure at 20 °C: 24597 Pa  
Vapour pressure at 50 °C: 76785 Pa (77 kPa)  
Evaporation rate at 20 °C: Non-applicable \*

#### Product description:

Density at 20 °C: 1183 kg/m<sup>3</sup>  
Relative density at 20 °C: 1,183  
Dynamic viscosity at 20 °C: Non-applicable \*  
Kinematic viscosity at 20 °C: Non-applicable \*  
Kinematic viscosity at 40 °C: <20,5 cSt  
Concentration: Non-applicable \*  
pH: Non-applicable \*  
Vapour density at 20 °C: Non-applicable \*  
Partition coefficient n-octanol/water 20 °C: Non-applicable \*  
Solubility in water at 20 °C: Non-applicable \*  
Solubility property: Non-applicable \*  
Decomposition temperature: Non-applicable \*  
Melting point/freezing point: Non-applicable \*

#### Flammability:

Flash Point: 39 °C  
Autoignition temperature: 275 °C  
Lower flammability limit: Not available  
Upper flammability limit: Not available

### 9.2 Other information:

Surface tension at 20 °C: Non-applicable \*  
Refraction index: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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## SECTION 10: STABILITY AND REACTIVITY (continue)

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Avoid direct impact	Not applicable

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

#### A.- Ingestion:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

#### B- Inhalation:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

#### C- Contact with the skin and the eyes:

Produces serious eye damage after contact.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

#### E- Sensitizing effects:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitizing effects. For more information see section 3.

#### F- Specific target organ toxicity (STOT)-time exposure:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

Serious health effects in the case of prolonged consumption, including death, serious functional disorders or morphological changes of toxicological importance.

#### H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

#### Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Trichloroethylene CAS: 79-01-6 EC: 201-167-4	LD50 oral	4920 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	32,34 mg/L (4 h)	Rat
Ethoxylated Undecyl Alcohol CAS: 127036-24-2 EC: Non-applicable	LD50 oral	500 mg/kg (ATEi)	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Dichloromethane CAS: 75-09-2	LD50 oral	Non-applicable	
	LD50 dermal	Non-applicable	

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SECTION 11: TOXICOLOGICAL INFORMATION (continue)

Identification		Acute toxicity		Genus
EC: 200-838-9		LC50 inhalation	49118 mg/L (6 h)	Rat
Naphthalene		LD50 oral	500 mg/kg	Rat
CAS: 91-20-3		LD50 dermal	Non-applicable	
EC: 202-049-5		LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the product itself is not available

12.1 Toxicity:

Identification		Acute toxicity		Specie	Genus
Trichloroethylene	LC50	60 mg/L (48 h)		Brachydanio rerio	Fish
CAS: 79-01-6	EC50	20,8 mg/L (48 h)		Daphnia magna	Crustacean
EC: 201-167-4	EC50	450 mg/L (96 h)		Scenedesmus subspicatus	Alga
Dichloromethane	LC50	330 mg/L (96 h)		Pimephales promelas	Fish
CAS: 75-09-2	EC50	270 mg/L (48 h)		Daphnia magna	Crustacean
EC: 200-838-9	EC50	2300 mg/L (3 h)		Chlorella vulgaris	Alga
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LC50	1 - 10 mg/L (96 h)			Fish
CAS: Non-applicable	EC50	1 - 10 mg/L			Crustacean
EC: 919-446-0	EC50	1 - 10 mg/L			Alga
Naphthalene	LC50	0,1 - 1 mg/L (96 h)			Fish
CAS: 91-20-3	EC50	0,1 - 1 mg/L			Crustacean
EC: 202-049-5	EC50	0,1 - 1 mg/L			Alga

12.2 Persistence and degradability:

Identification		Degradability		Biodegradability	
Trichloroethylene	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 79-01-6	COD	Non-applicable	Period	14 days	
EC: 201-167-4	BOD5/COD	Non-applicable	% Biodegradable	2,4 %	
Dichloromethane	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 75-09-2	COD	Non-applicable	Period	28 days	
EC: 200-838-9	BOD5/COD	Non-applicable	% Biodegradable	13 %	
Naphthalene	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 91-20-3	COD	Non-applicable	Period	28 days	
EC: 202-049-5	BOD5/COD	Non-applicable	% Biodegradable	2 %	

12.3 Bioaccumulative potential:

Identification		Bioaccumulation potential	
Trichloroethylene	BCF		17
CAS: 79-01-6	Pow Log		2,29
EC: 201-167-4	Potential		Low
Dichloromethane	BCF		6
CAS: 75-09-2	Pow Log		1,25
EC: 200-838-9	Potential		Low
Naphthalene	BCF		168
CAS: 91-20-3	Pow Log		3,3
EC: 202-049-5	Potential		High

12.4 Mobility in soil:

Identification		Absorption/desorption		Volatility	
Trichloroethylene	Koc	Non-applicable	Henry	Non-applicable	
CAS: 79-01-6	Conclusion	Non-applicable	Dry soil	Non-applicable	
EC: 201-167-4	Surface tension	28730 N/m (25 °C)	Moist soil	Non-applicable	

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## SECTION 12: ECOLOGICAL INFORMATION (continue)

Identification	Absorption/desorption		Volatility	
Dichloromethane	Koc	24	Henry	3,293E+2 Pa·m <sup>3</sup> /mol
CAS: 75-09-2	Conclusion	Very High	Dry soil	Yes
EC: 200-838-9	Surface tension	28770 N/m (25 °C)	Moist soil	Yes
Naphthalene	Koc	817	Henry	4,458E+1 Pa·m <sup>3</sup> /mol
CAS: 91-20-3	Conclusion	Moderate	Dry soil	Non-applicable
EC: 202-049-5	Surface tension	13060 N/m (277,74 °C)	Moist soil	Non-applicable

### 12.5 Results of PBT and vPvB assessment:

Non-applicable

### 12.6 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Code	Description	Waste class (Directive 2008/98/EC)
20 01 29*	Detergents containing dangerous substances	Dangerous

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

## SECTION 14: TRANSPORT INFORMATION

### Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:



- 14.1 UN number:** UN1993
- 14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))
- 14.3 Transport hazard class(es):** 3  
Labels: 3
- 14.4 Packing group:** III
- 14.5 Dangerous for the environment:** No
- 14.6 Special precautions for user**  
Special regulations: 274, 601, 640E  
Tunnel restriction code: D/E  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Non-applicable

### Transport of dangerous goods by sea:

With regard to IMDG 36-12:

- CONTINUED ON NEXT PAGE -



SECTION 14: TRANSPORT INFORMATION (continue)



- 14.1 UN number:** UN1993  
**14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))  
**14.3 Transport hazard class(es):** 3  
**Labels:** 3  
**14.4 Packing group:** III  
**14.5 Dangerous for the environment:** No  
**14.6 Special precautions for user**  
Special regulations: 223, 274, 944, 955  
EmS Codes: F-E, S-E  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2014:



- 14.1 UN number:** UN1993  
**14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))  
**14.3 Transport hazard class(es):** 3  
**Labels:** 3  
**14.4 Packing group:** III  
**14.5 Dangerous for the environment:** No  
**14.6 Special precautions for user**  
Physico-Chemical properties: see section 9  
**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Trichloroethylene

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Naphthalene (excluded for the product type 19)

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Regulation (EC) n°648/2004 on detergents:**

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradability criteria stipulated in Regulation (EC) n°648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

**Contents labelled:**

Component	Concentration interval
Halogenated hydrocarbons	% (w/w) >= 30
Aliphatic hydrocarbons	15 <= % (w/w) < 30
Non-ionic surfactants	% (w/w) < 5

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):**



## SECTION 15: REGULATORY INFORMATION (continue)

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- “whoopee” cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Product classified hazardous under the CMR. Sale and distribution to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 90/394/EC Directive and later modifications.

### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

### Other legislation:

Non-applicable

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

### Modifications related to the previous security card which concerns the ways of managing risks. :

Directive 67/548/EC and Directive 1999/45/EC:

- R Phrases
- S Phrases

CLP Regulation (EC) n° 1272/2008:

- Hazard statements
- Precautionary statements

Content of the 3rd section presenting modifications:

- Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%): R Phrases, Hazard statements

### Text of R-phrases considered in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

### Directive 67/548/EC and Directive 1999/45/EC:



## SECTION 16: OTHER INFORMATION (continue)

R10: Flammable  
R22: Harmful if swallowed  
R36/37/38: Irritating to eyes, respiratory system and skin  
R36/38: Irritating to eyes and skin  
R40: Limited evidence of a carcinogenic effect  
R41: Risk of serious damage to eyes  
R45: May cause cancer (Category 2)  
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R51/53: Toxic to aquatic organisms, may cause long-term adverse 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  
R66: Repeated exposure may cause skin dryness or cracking  
R67: Vapours may cause drowsiness and dizziness

### CLP Regulation (EC) n° 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed  
Aquatic Acute 1: H400 - Very toxic to aquatic life  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways  
Carc. 1B: H350 - May cause cancer  
Carc. 2: H351 - Suspected of causing cancer  
Eye Dam. 1: H318 - Causes serious eye damage  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Muta. 2: H341 - Suspected of causing genetic defects  
Skin Irrit. 2: H315 - Causes skin irritation  
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure  
STOT SE 3: H335 - May cause respiratory irritation  
STOT SE 3: H336 - May cause drowsiness or dizziness

### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### Principal bibliographical sources:

<http://esis.jrc.ec.europa.eu>  
<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

### Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- CL50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol-water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -