

## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

#### 1.1. Product identifier

Code: 4350A699-01-A  
Product name: GEOACRIL 2K - CATALIZZATORE PER POLIACRILICI WB HARDENER FOR POLYACRYLIC'S WB INCOLORE

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

Intended use: Water borne 2K polyacrylic

Identified Uses	Industrial	Professional	Consumer
Painting of agricultural machinery, commercial vehicles, etc ..	PROC: 7. AC: 1. PC: 9a.	-	-

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

Name: ALCEA S.p.A.  
Full address: Via Piemonte 18  
District and Country: 20030 Senago (MI)  
Italy  
Tel: +39.02-99014-1 (centralino)  
Fax: +39.02-99014-300

e-mail address of the competent person responsible for the Safety Data Sheet

Ufficio Tecnico (msds@alcea.com)

Supplier:

Ufficio Tecnico (msds@alcea.com)

#### 1.4. Emergency telephone number

For urgent inquiries refer to

Ireland: (+353) 18092566  
United Kingdom: 111

ALCEA Technical Office Tel. +39.02-99014-220/221 (from monday to friday 8.00-12.00 a.m./1.00-5.00 p.m.)

**CENTRI ANTIVELENI (CAV)**  
- Osp. Niguarda Ca' Granda  
Piazza Ospedale Maggiore, 3 - 20162 - Milano - Tel: 02-66101029  
- Az. Osp. Papa Giovanni XXIII  
Piazza OMS, 1 - 24127 - Bergamo - Tel: 800883300  
- CAV Centro Nazionale di Informazione Tossicologica  
Via Salvatore Maugeri, 10 - 27100 - Pavia - Tel: 0382-24444  
- Az. Osp. Careggi - U.O. Tossicologia Medica  
L.go Brambilla, 3 - 50134 - Firenze - Tel: 055-7947819  
- CAV Policlinico A. Gemelli  
L.go A. Gemelli, 8 - 00168 - Roma - Tel: 06-3054343  
- CAV Policlinico Umberto I  
V.le del Policlinico, 155 - 00161 - Roma - Tel: 06-49978000  
- CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA  
Piazza Sant'Onofrio, 4 - 00165 - Roma - Tel: 06-68593726  
- Az. Osp. Univ. Foggia  
V.le Luigi Pinto, 1 - 71122 - Foggia - Tel: 0881-732326  
- Az. Osp. A. Cardarelli  
Via A. Cardarelli, 9 - 80131 - Napoli - Tel: 081-7472870  
- Azienda Ospedaliera Integrata Verona  
Piazzale Aristide Stefani, 1 - 37126 - Verona - Tel: 800011858

## 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 (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Acute toxicity, category 4	H332	Harmful if inhaled.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

### 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:

<b>H332</b>	Harmful if inhaled.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH204</b>	Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

<b>P264</b>	Thoroughly wash the contaminated parts after use with soap and water.
<b>P280</b>	Wear protective gloves / protective clothing / eye protection / face protection.
<b>P302+P352</b>	IN CASE OF CONTACT WITH SKIN: wash with plenty of water / soap
<b>P332+P313</b>	If skin irritation occurs: Get medical advice / attention.

**Contains:** POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE  
HEXANE,1-6-DIISOCYANATO-HOMOPOLIMER  
homopolymer isophorone diisocyanate  
N, N-dimethyl cyclohexylamine

As from 24 August 2023 adequate training is required before industrial or professional use.

VOC (Directive 2004/42/EC) :

Topcoat - base coatings - clear coating.

VOC given in g/litre of product in a ready-to-use condition :

291,60

Limit value:

420,00

### 2.3. Other hazards

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

4350A699-01-A - GEOACRIL 2K - CATALIZZATORE PER POLIACRILICI WB HARDENER FOR POLYACRYLIC'S WB INCOLORE

The product does not contain substances with endocrine disrupting properties in concentration  $\geq 0.1\%$ .**SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>HEXANE,I-6-DIISOCYANATO-HOMOPOLIMER</b>		
CAS	28182-81-2	$45 \leq x < 47,5$
EC	500-060-2	
INDEX		
REACH Reg.	01-2119485796-17-XXXX	
<b>homopolymer isophorone diisocyanate</b>		
CAS	53880-05-0	$20 \leq x < 21,5$
EC	931-312-3	
INDEX		
REACH Reg.	01-2119488734-24-XXXX	
<b>POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE</b>		
CAS	9046-01-9	$7 \leq x < 8$
EC		
INDEX		
<b>N, N-dimethyl cyclohexylamine</b>		
CAS	98-94-2	$2 \leq x < 2,5$
EC	202-715-5	
INDEX		
REACH Reg.	01-2119533030-60-XXXX	
<b>ISOPHORONE DIISOCYANATE</b>		
CAS	4098-71-9	$0,354 \leq x < 0,404$
EC	223-861-6	
INDEX	615-008-00-5	
REACH Reg.	01-2119490408-31-XXXX	
<b>HEXAMETHYLENE-DI-ISOCYANATE</b>		
CAS	822-06-0	$0,2 \leq x < 0,25$
EC	212-485-8	
INDEX	615-011-00-1	
REACH Reg.	01-2119457571-37-XXXX	

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

**SECTION 4. First aid measures****4.1. Description of first aid measures**

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

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

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

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

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

Specific information on symptoms and effects caused by the product are unknown.

**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

Do not breathe combustion products.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

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

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

## SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

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

### 6.2. Environmental precautions

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

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

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

Make sure the leakage site is well aired. 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. 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 cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

## Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
	TLV-ACGIH	ACGIH 2021

**ISOPHORONE DIISOCYANATE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	0,1				
AGW	DEU	0,046	0,005	0,046 (C)	0,005 (C)	
MAK	DEU	0,046	0,005	0,046 (C)	0,005 (C)	C = 0,092 mg/m3
VLA	ESP	0,046	0,005			
VLEP	FRA	0,09	0,01	0,18	0,02	
TLV	GRC	0,09		0,18		
TGG	NLD	0,05	5	0,19	20	
NDS/NDSch	POL	0,04				
MV	SVN	0,046	0,005	0,046	0,005	
TLV-ACGIH		0,045	0,005			

**SECTION 8. Exposure controls/personal protection** ... / >>**HEXAMETHYLENE-DI-ISOCYANATE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
TLV	BGR	0,1				
TLV	CZE	0,035	0,005	0,07	0,01	
AGW	DEU	0,035	0,005	0,035 (C)	0,005 (C)	
MAK	DEU	0,035	0,005	0,035 (C)	0,005 (C)	C = 0,070 mg/m <sup>3</sup>
VLA	ESP	0,035	0,005			
VLEP	FRA	0,075	0,01	0,15	0,02	
AK	HUN	0,035		0,035		
NDS/NDSch	POL	0,04		0,08		SKIN
TLV	ROU	0,05	0,007	1	0,14	
NPEL	SVK	0,035	0,005			
MV	SVN	0,035	0,005	0,035	0,005	
TLV-ACGIH		0,034	0,005			

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0774	mg/l
Normal value in marine water	0,00774	mg/l
Normal value for fresh water sediment	0,01334	mg/kg
Normal value for marine water sediment	0,00133	mg/kg
	4	
Normal value for water, intermittent release	0,774	mg/l
Normal value of STP microorganisms	8,42	mg/l
Normal value for the terrestrial compartment	0,0026	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					0,07 mg/m <sup>3</sup>	0,07 mg/m <sup>3</sup>	0,035 mg/m <sup>3</sup>	0,035 mg/m <sup>3</sup>

**N, N-dimethyl cyclohexylamine****Predicted no-effect concentration - PNEC**

Normal value in fresh water	2	mg/l
-----------------------------	---	------

## 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.

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 Regulation 2016/425 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, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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

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

**ENVIRONMENTAL EXPOSURE CONTROLS**

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

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	colourless	
Odour	Not available	
Melting point / freezing point	Not available	
Initial boiling point	100 °C	
Flammability	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	> 60 °C	
Auto-ignition temperature	Not available	
pH	Not available	
Kinematic viscosity	>20,5 mm <sup>2</sup> /sec (40°C)	
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1,08	
Relative vapour density	Not available	
Particle characteristics	Not applicable	

**9.2. Other information**

## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

Total solids (250°C / 482°F)	73,00 %		
VOC (Directive 2004/42/EC) :	27,00 %	-	291,60 g/litre
VOC (volatile carbon)	15,87 %	-	171,43 g/litre

**SECTION 10. Stability and reactivity****10.1. Reactivity**

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

## HEXAMETHYLENE-DI-ISOCYANATE

Decomposes at 255°C/491°F. Polymerises at temperatures above 200°C/392°F.

**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.

## HEXAMETHYLENE-DI-ISOCYANATE

May form explosive mixtures with: alcohols,bases.May react violently with: alcohols,amines,strong bases,oxidising agents,strong acids,water.

**10.4. Conditions to avoid**

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

## HEXAMETHYLENE-DI-ISOCYANATE

Avoid exposure to: high temperatures,moisture.

**10.5. Incompatible materials**

## HEXAMETHYLENE-DI-ISOCYANATE

**SECTION 10. Stability and reactivity** ... / >>

Incompatible with: alcohols,carboxylic acids,amines,strong bases.

**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.

HEXAMETHYLENE-DI-ISOCYANATE

May develop: nitric oxide,hydrogen cyanide.

**SECTION 11. Toxicological information**

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.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	2,24 mg/l
ATE (Inhalation - vapours) of the mixture:	Acute Tox. 4
ATE (Inhalation - gas) of the mixture:	Acute Tox. 4
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

ISOPHORONE DIISOCYANATE	
STA (Inhalation mists/powders):	0,051 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation vapours):	0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation gas):	100 ppm estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

HEXAMETHYLENE-DI-ISOCYANATE	
LC50 (Inhalation vapours):	0,124 mg/l/4h Rat

HEXANE,I-6-DIISOCYANATO-HOMOPOLIMER	
LD50 (Oral):	> 2500 mg/kg Rat
LD50 (Dermal):	> 2000 mg/kg Rat
LC50 (Inhalation mists/powders):	0,467 mg/l/4h Rat
STA (Inhalation mists/powders):	1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

N, N-dimethyl cyclohexylamine	
LD50 (Oral):	201 mg/kg ratto
LD50 (Dermal):	401 mg/kg coniglio
LC50 (Inhalation mists/powders):	4,45 mg/l/4h ratto
STA (Inhalation mists/powders):	0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

homopolymer isophorone diisocyanate	
LD50 (Oral):	> 14000 mg/kg Rat
LC50 (Inhalation mists/powders):	> 5 mg/l/4h Rat



## SECTION 11. Toxicological information ... / >>

### SKIN CORROSION / IRRITATION

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

### Respiratory sensitization

Information not available

### Skin sensitization

Information not available

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### Adverse effects on sexual function and fertility

Information not available

### Adverse effects on development of the offspring

Information not available

### Effects on or via lactation

Information not available

### STOT - SINGLE EXPOSURE

May cause respiratory irritation

### Target organs

Information not available

### Route of exposure

Information not available

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### Target organs

Information not available

### Route of exposure

Information not available

### ASPIRATION HAZARD

**SECTION 11. Toxicological information** ... / >>

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**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****HEXANE,I-6-DIISOCYANATO-HOMOPOLIMER**

LC50 - for Fish	> 100 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	127 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h Scenedesmus subspicatus

**N, N-dimethyl cyclohexylamine**

LC50 - for Fish	23 mg/l/96h
EC50 - for Crustacea	45 mg/l/48h daphnia
EC50 - for Algae / Aquatic Plants	2,1 mg/l/72h alghe

**POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE**

LC50 - for Fish	10 mg/l/96h Danio rerio
-----------------	-------------------------

**homopolymer isophorone diisocyanate**

LC50 - for Fish	> 1,51 mg/l/96h Cyprinus carpio
EC50 - for Crustacea	> 3,36 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 3,1 mg/l/72h scenedesmus subspicatus

**12.2. Persistence and degradability****ISOPHORONE DIISOCYANATE**

NOT rapidly degradable

**HEXAMETHYLENE-DI-ISOCYANATE**

NOT rapidly degradable

**HEXANE,I-6-DIISOCYANATO-HOMOPOLIMER**

NOT rapidly degradable

**N, N-dimethyl cyclohexylamine**

Degradability: information not available

**POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE**

Entirely degradable

**12.3. Bioaccumulative potential****ISOPHORONE DIISOCYANATE**

Partition coefficient: n-octanol/water	0,99
--	------

**HEXAMETHYLENE-DI-ISOCYANATE**

Partition coefficient: n-octanol/water	3,2
BCF	3,2

**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  $\geq$  than 0,1%.

## SECTION 12. Ecological information ... / >>

### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

### 12.7. 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.

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.

### 14.1. UN number or ID number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: \_\_\_\_\_ None

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

Product

Point

3 - 40

**SECTION 15. Regulatory information** ... / >>

Contained substance		
Point	75	ISOPHORONE DIISOCYANATE REACH Reg.: 01-2119490408-31-XXXX
Point	75	HEXAMETHYLENE-DI-ISOCYANATE REACH Reg.: 01-2119457571-37-XXXX
Point	74	DIISOCYANATES

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 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.

VOC (Directive 2004/42/EC) :

Topcoat - base coatings - clear coating.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**SECTION 16. Other information**

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

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Acute Tox. 1</b>	Acute toxicity, category 1
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Resp. Sens. 1</b>	Respiratory sensitization, category 1
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H226</b>	Flammable liquid and vapour.
<b>H330</b>	Fatal if inhaled.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H317</b>	May cause an allergic skin reaction.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH204</b>	Contains isocyanates. May produce an allergic reaction.

## SECTION 16. Other information ... / >>

Use descriptor system:

<b>AC</b> 1	Vehicles
<b>PC</b> 9a	Coatings and paints, thinners, paint removers
<b>PROC</b> 7	Industrial spraying

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## SECTION 16. Other information ... / >>

### 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.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

### Changes to previous review:

The following sections were modified:

11.