



IDEAL WORK

IW-EPOXY COAT Comp.A

Revision nr. 7

Dated 14/06/2019

Printed on 19/05/2020

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Safety Data Sheet

According to Annex II to REACH – Regulation 2015/830

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

1.1. Product identifier

Code: IW-EPOXY COAT Comp.A
Product name

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

Intended use Epoxy product for floors

Identified Uses	Industrial	Professional	Consumer
	✓	✓	-----

1.3. Details of the supplier of the safety data sheet

Company name IDEAL WORK SRL
Address: Via Kennedy, 52
Place and country 31030 Vallà di Riese Pio X (TV)
Italy
Tel. +39 0423/4535

e-mail address for a competent person,
responsible for the safety data sheet

sicurezza@idealwork.it

1.4. Emergency telephone number

For information in an emergency

IRELAND: National Poisons Information Centre (NPIC): +353 1 8092166
MALTA: Medicines & poisons info Office 112
UK: National Health Service (NHS) (999 emergency call; 111 non-emergency call)
Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department

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 2015/830. 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:

Germ cell mutagenicity, category 2	H341	Suspected of causing genetic defects.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic 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: Warning

Hazard statements:

H341	Suspected of causing genetic defects.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:



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P201	Obtain special instructions before use.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice / attention.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P501	Dispose of contents / container in accordance with local / regional / national / international.

Contains: 2,3-epoxypropyl o-tolyl ether
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Quartz (SiO₂)		
CAS 14808-60-7	$30 \leq x < 50$	
EC 238-878-4		
INDEX -		
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).		
CAS 25068-38-6	$10 \leq x < 30$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 500-033-5		
INDEX 603-074-00-8		
Reg. no. 01-2119456619-26		
Barium sulfate		
CAS 7727-43-7	$10 \leq x < 30$	
EC 231-784-4		
INDEX -		
2,3-epoxypropyl o-tolyl ether		
CAS 2210-79-9	$5 \leq x < 10$	Muta. 2 H341, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: c
EC 218-645-3		
INDEX 603-056-00-X		
Reg. no. 01-2119966907-18		
White mineral oil (petroleum)		
CAS 8042-47-5	$0,1 \leq x < 1$	Asp. Tox. 1 H304
EC 232-455-8		
INDEX -		



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Reg. no. 01-2119487078-27

Solvent naphtha (petroleum), light arom

CAS 64742-95-6 0,05 ≤ x < 0,15 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411

EC

INDEX -

Reg. no. 01-2119455851-35

2,6-dimethylheptan-4-one

CAS 108-83-8 0,01 ≤ x < 0,1 Flam. Liq. 3 H226, STOT SE 3 H335

EC 203-620-1

INDEX 606-005-00-X

Reg. no. 01-2119474441-41

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

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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 firefighting 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.



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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 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:

DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
	TLV-ACGIH	ACGIH 2018

Quartz (SiO₂)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m ³	ppm	mg/m ³	ppm
MAK	DEU	0,15			
VLA	ESP	0,1			
VLEP	FRA	0,1			RESP
TLV-ACGIH		0,025			

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,006	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,996	mg/kg
Normal value for marine water sediment	0,1	mg/kg
Normal value for water, intermittent release	0,018	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	11	mg/kg



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Normal value for the terrestrial compartment

0,196

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
Oral	VND	0,75 mg/kg bw/d	VND	0,75 mg/kg bw/d				
Inhalation					VND	12,25 mg/m3	VND	12,25 mg/m3
Skin	VND	3,571 mg/kg bw/d	VND	3,571 mg/kg bw/d	VND	8,33 mg/kg bw/d	VND	8,33 mg/kg bw/d

Barium sulfate**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	0,3		2,4		RESP	
VLA	ESP	10				INHAL	
WEL	GBR	4					
WEL	GBR	10				INHAL	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,115	mg/l
Normal value for fresh water sediment	600,4	mg/kg
Normal value of STP microorganisms	62,2	mg/l
Normal value for the terrestrial compartment	207,7	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
Oral				13000 mg/kg bw/d				
Inhalation				10 mg/m3			10 mg/m3	10 mg/m3

2,3-epoxypropyl o-tolyl ether**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0028	mg/l
Normal value in marine water	0,00028	mg/l
Normal value for fresh water sediment	0,039	mg/kg
Normal value for marine water sediment	0,004	mg/kg
Normal value for water, intermittent release	0,028	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,012	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
Oral			VND	0,14 mg/kg bw/d				
Inhalation					40 mg/m3	40 mg/m3	0,46 mg/m3	0,46 mg/m3
Skin							VND	0,139 mg/kg bw/d



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White mineral oil (petroleum)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	5		20		RESP

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
Oral				40 mg/kg bw/d				
Inhalation				35 mg/m3				160 mg/m3
Skin				92 mg/kg bw/d				220 mg/kg bw/d

Solvent naphtha (petroleum), light arom

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
Oral				11 mg/kg/d				
Inhalation				32 mg/m3				150 mg/m3
Skin				11 mg/kg/d				25 mg/kg/d

2,6-dimethylheptan-4-one

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLA	ESP	148	25		
VLEP	FRA	250	25		
WEL	GBR	148	25		

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,03	mg/l
Normal value in marine water	0,003	mg/l
Normal value for fresh water sediment	0,46	mg/kg
Normal value for marine water sediment	0,046	mg/kg
Normal value for water, intermittent release	0,3	mg/l
Normal value of STP microorganisms	2,55	mg/l
Normal value for the terrestrial compartment	0,075	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
Oral			VND	7,14 mg/kg bw/d				
Inhalation	145 mg/m3	145 mg/m3	145 mg/m3	171 mg/m3	290 mg/m3	290 mg/m3	290 mg/m3	479 mg/m3
Skin			VND	28,5 mg/kg bw/d			VND	80 mg/kg bw/d

Legend:



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(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 Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B 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

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.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Glove materials for long-term use (BTT > 480 min): laminated ethylvinyl alcohol (EVAL), butyl rubber.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	viscous liquid
Colour	beige
Odour	mild
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 60 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available



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Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,80
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	29000 - 31000 cP (Brookfield, 25°C)
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

VOC (Directive 2010/75/EC) :	0,01 % - 0,22 g/litre
VOC (volatile carbon) :	< 0,01 % - 0,16 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

Quartz (SiO₂)

Stable in normal conditions of use and storage.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

No data available about the reactivity on the product itself.

Barium sulfate

Stable in normal conditions of use and storage.

2,3-epoxypropyl o-tolyl ether

No data available about the reactivity on the product itself.

White mineral oil (petroleum)

Stable in normal conditions of use and storage.

Solvent naphtha (petroleum), light arom

Stable in normal conditions of use and storage.

2,6-dimethylheptan-4-one

Stable in normal conditions of use and storage.

10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

Quartz (SiO₂)

Stable in normal conditions of use and storage.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Stable in normal conditions of use and storage.

Barium sulfate

Stable in normal conditions of use and storage.

2,3-epoxypropyl o-tolyl ether

Stable in normal conditions of use and storage.

White mineral oil (petroleum)

Stable in normal conditions of use and storage.

Solvent naphtha (petroleum), light arom



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Stable in normal conditions of use and storage.

2,6-dimethylheptan-4-one

Stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

See paragraph 10.1.

Quartz (SiO₂)

Stable in normal conditions of use and storage.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

By weight over 0,5 kg to add an aminic base substance drives to a strong exothermic reaction.

The reaction with aminic components is not reversible.

Barium sulfate

Avoid exposure to: high temperatures.

2,3-epoxypropyl o-tolyl ether

Stable in normal conditions of use and storage.

White mineral oil (petroleum)

Stable in normal conditions of use and storage.

Solvent naphtha (petroleum), light arom

May react dangerously if exposed to: air.

2,6-dimethylheptan-4-one

No specific data available.

10.4. Conditions to avoid

Avoid overheating.

Quartz (SiO₂)

No specific data available.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Avoid exposure to: high temperatures.

The thermal decomposition develops gases which can cause pressure in closed systems.

Barium sulfate

Decomposes if exposed to: high temperatures.

2,3-epoxypropyl o-tolyl ether

Avoid contact with: strong acids, strong bases, strong oxidising agents.

Avoid exposure to: heat.

White mineral oil (petroleum)

Avoid exposure to: heat.

Solvent naphtha (petroleum), light arom

Avoid exposure to: heat, naked flames, electrostatic discharges.

2,6-dimethylheptan-4-one

Avoid exposure to: high temperatures.

10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

Quartz (SiO₂)

No specific data available.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Avoid contact with: oxidising agents, acids, bases. Avoid unintended contact with amines.



Barium sulfate
No specific data available.

2,3-epoxypropyl o-tolyl ether
Avoid contact with: acids,bases,oxidising agents.

White mineral oil (petroleum)
Avoid contact with: strong oxidising agents.

Solvent naphtha (petroleum), light arom
Avoid contact with: acids,strong oxidising agents.

2,6-dimethylheptan-4-one
Avoid contact with: strong acids,strong oxidising agents.

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.

Quartz (SiO₂)
No specific data available.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).
The thermal decomposition develops: carbon monoxide, water, phenols, phenolic derivatives.
An uncontrolled exothermic reaction build up phenolic derivatives , carbon monoxide and water.

Barium sulfate
No specific data available.

2,3-epoxypropyl o-tolyl ether
In decomposition develops: carbon oxides,toxic fumes.

White mineral oil (petroleum)
None dangerous decomposition products at normal use and storage conditions.

Solvent naphtha (petroleum), light arom
None dangerous decomposition products at normal use and storage conditions.

2,6-dimethylheptan-4-one
No specific data available.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

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
LC50 (Inhalation) of the mixture: Not classified (no significant component)
LD50 (Oral) of the mixture: Not classified (no significant component)
LD50 (Dermal) of the mixture: Not classified (no significant component)

2,3-epoxypropyl o-tolyl ether



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LD50 (Oral) > 5000 mg/kg male/female rat
LD50 (Dermal) > 2000 mg/kg male/female rat
LC50 (Inhalation) > 6,1 ppm/4h male/female rat

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

LD50 (Oral) > 2000 mg/kg female rat
LD50 (Dermal) > 2000 mg/kg male/female rat

2,6-dimethylheptan-4-one
LD50 (Oral) > 2000 mg/kg male/female rat
LD50 (Dermal) > 2000 mg/kg male/female rat
LC50 (Inhalation) > 14,5 mg/l/4h rat

Barium sulfate
LD50 (Oral) > 3000 mg/kg male rat
LD50 (Dermal) > 2000 mg/kg rat

White mineral oil (petroleum)
LD50 (Oral) > 5000 mg/kg male/female rat
LD50 (Dermal) > 2000 mg/kg male/female rabbit
LC50 (Inhalation) > 5 mg/l/4h male/female rat

Solvent naphtha (petroleum), light arom
LD50 (Oral) > 3,16 mg/kg male/female rabbit
LD50 (Dermal) > 2000 mg/kg male/female rabbit

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Suspected of causing genetic defects

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

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

12.1. Toxicity

2,3-epoxypropyl o-tolyl ether

LC50 - for Fish

> 2,8 mg/l/96h Salmo gairdneri

EC50 - for Crustacea

3,3 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

5,1 mg/l/72h Pseudokirchnerella subcapitata



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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700).

LC50 - for Fish	3,6 mg/l/96h Salmo gairdneri
EC50 - for Crustacea	1,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	9,4 mg/l/72h Scenedesmus capricornutum
Chronic NOEC for Crustacea	0,3 mg/l Daphnia magna

2,6-dimethylheptan-4-one

LC50 - for Fish	30 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	37,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	46,9 mg/l/72h Pseudokirchnerella subcapitata

Barium sulfate

LC50 - for Fish	> 3,5 mg/l/96h Danio rerio
EC50 - for Crustacea	14,5 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 1,15 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 100 mg/l Danio rerio

Solvent naphtha (petroleum), light arom

EC50 - for Crustacea	3,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	2,6 mg/l/72h Pseudokirchneriella subcapitata

12.2. Persistence and degradability

2,3-epoxypropyl o-tolyl ether

Solubility in water	moderately soluble 840 mg/l
NOT rapidly degradable	11 a 17 % 28 d

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700).

Solubility in water	slightly soluble > 5,4 - < 8,4 mg/l
NOT rapidly degradable	5 % 28 d

2,6-dimethylheptan-4-one

Rapidly degradable	88 % 20 d
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Barium sulfate

Solubility in water	slightly soluble 3,1 mg/l
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Degradability: information not available

White mineral oil (petroleum)

Entirely degradable	31 % 28 d similar materials
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Solvent naphtha (petroleum), light arom

Rapidly degradable

12.3. Bioaccumulative potential

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700).

BCF	31
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2,6-dimethylheptan-4-one



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BCF 130 l/kg

Barium sulfate

BCF 68,4

12.4. Mobility in soil

2,3-epoxypropyl o-tolyl ether

Partition coefficient: soil/water 2,32

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700).

Partition coefficient: soil/water 2,65

2,6-dimethylheptan-4-one

Partition coefficient: soil/water 2,07 T = 25°C

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to ADR provisions.IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IMDG Code provisions.IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin and 1,2 cresyl glycidyl ether)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin and 1,2 cresyl glycidyl ether)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin and 1,2 cresyl glycidyl ether)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9





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14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special Provision: -		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Pass.:	Maximum quantity: 450 L	Packaging instructions: 964
	Special Instructions:	A97, A158, A197	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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/EC: E2

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

Product
Point 3

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

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

**SECTION 16. Other information**

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

Flam. Liq. 3	Flammable liquid, category 3
Muta. 2	Germ cell mutagenicity, category 2
Asp. Tox. 1	Aspiration hazard, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H341	Suspected of causing genetic defects.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament



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3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 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)
- 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

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.