Safety Data Sheet dated 10/10/2018, version 2

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

1.1. Product identifier

Mixture identification:

Trade name: DUNAPOX BLACK SEA 125 RESIN

Trade code: 260270

Product type:

Epoxy resin

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

Component for the production of epoxy polymers

1.3. Details of the supplier of the safety data sheet

Company:

DUNA-Corradini S.p.A.
Via Modena-Carpi, 388
41019 Soliera (MO)
Italy
Phone: +39 059 893911

Competent person responsible for the safety data sheet:

safety@dunagroup.com

1.4. Emergency telephone number

DUNA-Corradini S.p.A.
phone +39 059 893911
(8.00 - 18.00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

- Warning, Skin Irrit. 2, Causes skin irritation.
- Warning, Eye Irrit. 2, Causes serious eye irritation.
- Warning, Skin Sens. 1, May cause an allergic skin reaction.
- Warning, Muta. 2, Suspected of causing genetic defects.
- Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

The full text for substance classification is reported in section 16.

2.2. Label elements

Hazard pictograms:

Warning

Hazard statements:

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

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P391 Collect spillage.
Special Provisions:
EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains
bis-[4-(2,3-epoxipropoxi)phenyl]propane; epoxy resin
2,3-epoxypropyl o-tolyl ether
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.
3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 20% - < 30%	bis-[4-(2,3-epoxipropoxi)phenyl] propane; epoxy resin	Index number: 603-073-00-2 CAS: 1675-54-3 EC: 216-823-5 REACH No.: 01-2119456619-26	3.3/2 Eye Irrit. 2 H319 4.1/C2 Aquatic Chronic 2 H411 3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317
>= 5% - < 10%	2,3-epoxypropyl o-tolyl ether	Index number: 603-056-00-X CAS: 2210-79-9 EC: 218-645-3 REACH No.: 01-2119966907-18	3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317 3.5/2 Muta. 2 H341 4.1/C2 Aquatic Chronic 2 H411
>= 0.1% - < 1%	Low boiling point naphtha - unspecified	CAS: 64742-95-6 EC: 265-199-0 REACH No.: 01-2119455851-35	2.6/3 Flam. Liq. 3 H226 3.10/1 Asp. Tox. 1 H304 3.8/3 STOT SE 3 H335 3.8/3 STOT SE 3 H336 4.1/C2 Aquatic Chronic 2 H411
< 0.1%	2-methoxy-1-methylethyl acetate	Index number: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH No.: 01-2119475791-29	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336

The full text of the hazard statements can be found in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash generously with water and soap. Remove contaminated clothes and shoes. Wash carefully contaminated clothes with water before removing them os use gloves. Rinse for at least 10 minutes. Consult a doctor. In case of disorders or symptoms, avoid exposure to the substance. Wash clothes before reusing. Wash shoes carefully before reusing.

In case of eyes contact:

In case of contact with eyes, wash using water for at least 30 minutes, keep the eyes opened and consult an ophthalmologist. Remove contact lenses if possible.
Protect uninjured eye.

In case of ingestion:

If the person exposed to the substance is responsive, make him wash his mouth with water. Do not induce vomiting if not authorized by medical staff. In case of vomit, keep the head down so that vomit does not enter the lungs.

In case of inhalation:

Remove casualty to fresh air and keep warm and at rest.
Giving CPR could be dangerous for the rescuer.

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

It can cause both skin and eye irritation. It can cause allergic skin reaction. It's irritating for mouth, throat and stomach. In case of long-term exposure, it can cause lacrimation, irritation and reddening of both eyes and skin.
None

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
Nothing specific.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Carbon dioxide (CO_2).
Water spray
Extinguishing media which must not be used for safety reasons:
Direct water jet

5.2. Special hazards arising from the substance or mixture

Combustion produces carbon dioxide, carbon monoxide and halogenated compounds. In case of fire or overheating, the pressure increases causing a potential explosion of the vessel containing the substance.

5.3. Advice for firefighters

In case of fire, isolate promptly the area of the accident removing all the people. Actions which could involve a risk or are undertaken without the suitable training must be avoided.
People of the emergency response team must wear protective equipment including a positive-pressure Self-Contained Breathing Apparatus (SCBA) with face mask. Protective clothing (including helmets, boots and gloves), complying with EU regulation EN 469, ensure a based level of protection for firefighting personnel during chemical accidents.
Move undamaged containers from immediate hazard area if it can be done safely.
This compound is toxic for aquatic environments with long-term effects. Contaminated fire extinguishing water must be contained and it must not enter in contact with water streams, sewage or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
Before acting, make sure the area is well-ventilated and eliminate all the sources for combustion.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
6.3. Methods and material for containment and cleaning up
Suitable material for taking up: absorbing material, organic, sand.
Wash with plenty of water.
Contain and collect scrubbing water in compliance with the existing legislation.
Contain and collect possible leakage using absorbent and non-combustible material, i.e. sand, soil, vermiculite, diatomite. Then arrange for disposal of the product in a vessel in compliance with the existing legislation.
6.4. Reference to other sections
See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes and inhalation of vapors and mists.
Keep container tightly closed and always ensure adequate ventilation in environments in which the manipulation is done.
Before transfer operations, make sure that there are no incompatible residual materials in the receiving container.
Contaminated clothing should be changed before entering eating areas.
At work do not eat, do not drink and do not smoke.
7.2. Conditions for safe storage, including any incompatibilities
Keep away from sources of heat, flames and sparks.
Incompatible materials: see section 10.
It is recommended that the premises are cool and well-aerated to ensure fresh air all the time in the storage area.
Store in a cool and dry place. Keep the product in the original container tightly closed. After using, seal the opened containers and keep them in a vertical position to avoid accidental leakages. Do not store the product in non-labelled containers.
Protect from freezing and direct sunlight.
Do not store near drains.
7.3. Specific end use(s)
Refer to subsection 1.2 of this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Low boiling point naphtha - unspecified - CAS: 64742-95-6
TLV TWA - 20 mg/m3
TLV STEL - 100 mg/m3
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
EU - TWA(8h): 275 mg/m3, 50 ppm - STEL(15 m): 550 mg/m3, 100 ppm - Notes: Skin
OEL - TWA(8h): 275 mg/m3, 50 ppm - STEL(15 m): 550 mg/m3, 100 ppm - Notes: Skin - Italy OEL
DNEL Exposure Limit Values
bis-[4-(2,3-epoxipropoxi)phenyl]propane; epoxy resin - CAS: 1675-54-3
Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, local effects
Worker Industry: 8.33 mg/kg - Consumer: 3.571 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 8.33 mg/cm2 - Consumer: 3.571 mg/cm2 - Exposure: Human Dermal - Frequency: Long Term, local effects
Worker Industry: 12.25 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 12.25 ppm - Exposure: Human Inhalation - Frequency: Long Term, local effects
Low boiling point naphtha - unspecified - CAS: 64742-95-6

Worker Industry: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 150 ppm - Consumer: 32 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Industry: 153.5 mg/kg - Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 275 ppm - Consumer: 33 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

bis-[4-(2,3-epoxipropoxi)phenyl]propane; epoxy resin - CAS: 1675-54-3

Target: Fresh Water - Value: 0.006 mg/l
Target: Marine water - Value: 0.0006 mg/l
Target: Intermittent release - Value: 0.018 mg/l
Target: Freshwater sediments - Value: 0.996 mg/kg
Target: Marine water sediments - Value: 0.0996 mg/kg
Target: Soil - Value: 0.196 mg/kg
Target: Sewage treatment plants - Value: 10 mg/l

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Target: Fresh Water - Value: 0.635 mg/l
Target: Marine water - Value: 0.0635 mg/l
Target: Intermittent release - Value: 6.35 mg/l
Target: Sewage treatment plants - Value: 100 mg/l
Target: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
Target: Soil - Value: 0.29 mg/kg

8.2. Exposure controls

Eye protection:

Use safety glasses in compliance with regulation EN 166 in order to avoid exposure to liquid drops, sprays or dust.

Protection for skin:

PPE for the body should be selected based on the risks of the job.
We recommend the use of heavy cotton clothing or disposable Tyvek.

Protection for hands:

Wear resistant gloves when in contact with chemicals, in accordance with EN 374.
Among the examples of the materials for gloves that can offer appropriate protection are: butyl rubber, chlorinated polyethylene, polyethylene, laminates of copolymers of ethylene / vinyl alcohol (EVAL), polychloroprene (neoprene), nitrile/butadiene rubber (NBR or nitrile), polyvinyl chloride (PVC or vinyl), fluoroelastomer (Viton).
In the case of prolonged or frequently repeated contact, we recommend a protection class of at least 5 (breakthrough time greater than 240 minutes according to the standard EN 374).
If you are planning a short contact, it is recommended a protection class of at least 3 (breakthrough time greater than 60 minutes according to the standard EN 374).
Decontaminate and dispose of contaminated gloves.
Wear protective gloves in the handling of the just obtained polymer to avoid contact with traces of residual material which can be dangerous in contact with the skin.

Respiratory protection:

PPE for respiratory protection must be chosen and used for risks for the job.
Breathing apparatuses should be used (if available) when there's the possibility to exceed the occupational exposure limit values. Otherwise, wear breathing apparatuses when side effects such as irritation to airways appear or when specified in your chemical risk assessment.
In case of exceeding threshold value for daily exposure in the workplace of one or more of the substances present in the mixture, wear a mask with filter type A or universal type, the class of which (1, 2 or 3) will be chosen according to the limit concentration of use (ref. standard EN 141).

Thermal Hazards:

Wear protective gloves when handling the just formed polymer in order to avoid burns.

Environmental exposure controls:
Refer to section 7 and section 13.
Appropriate engineering controls:
Provide a ventilation system (localised or not) in order to keep the concentrations below the occupational exposure limit values. Air intake systems must be designed so that air is removed from vapours/aerosols sources and from people working in the area. Provide eyewash fountains and safety showers.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Black paste	--	--
Odour:	Typical	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	Not available	--	--
Flash point:	No	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	1.65 g/cc	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not pyrophoric	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	TIXO cps (25°C)	--	--
Explosive properties:	Not explosive	--	--
Oxidizing properties:	Not oxydant	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

The product reacts with amines generating irreversible polymerization accompanied by considerable development of heat.

10.2. Chemical stability

The product is stable under the storage conditions described in Section 7.

10.3. Possibility of hazardous reactions

It may catch fire on contact with strong oxidizing agents.

10.4. Conditions to avoid

Avoid overheating the product for a long time.
Potentially violent decomposition can occur above 350°C.
Generation of gas during decomposition can cause pressure in closed systems. The increase of pressure can be very rapid.
Avoid static electricity discharges.

10.5. Incompatible materials

Avoid contact with strong oxidizing materials, acids and bases.
Avoid unintended contact with amines.

10.6. Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other substances.
The product can develop harmful and/or irritating vapors if heated to high temperatures because of evaporation of the more volatile fraction.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

DUNAPOX BLACK SEA 125 RESIN

a) acute toxicity

Not classified
Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1 H317

e) germ cell mutagenicity

The product is classified: Muta. 2 H341

f) carcinogenicity

Not classified
Based on available data, the classification criteria are not met

g) Reproductive toxicity/toxicity to fertility

Not classified
Based on available data, the classification criteria are not met

h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

bis-[4-(2,3-epoxipropoxi)phenyl]propane; epoxy resin - CAS: 1675-54-3

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 15000 mg/kg
Test: NOEAL - Route: Oral - Species: Rat = 50 mg/kg
Test: NOEAL - Route: Skin - Species: Rat = 100 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 23000 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Result: Positive - Source: Deduced form hazard classes of the substance
c) serious eye damage/irritation:
Test: Eye Irritant - Result: Positive - Source: Deduced form hazard classes of the substance
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Result: Positive - Source: Deduced form hazard classes of the substance
e) germ cell mutagenicity:
Based on available data, the classification criteria are not met
f) carcinogenicity:
Based on available data, the classification criteria are not met
g) Reproductive toxicity/toxicity to fertility:
Based on available data, the classification criteria are not met
h) STOT-single exposure:
Based on available data, the classification criteria are not met
i) STOT-repeated exposure:
Based on available data, the classification criteria are not met
j) aspiration hazard:
Based on available data, the classification criteria are not met

2,3-epoxypropyl o-tolyl ether - CAS: 2210-79-9

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: 12
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: 12
b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit - Result: Positive - Source: RTECS - National Technical Information Service
c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit -Result: Negative - Source: OECD Test Guideline 405
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: Guinea pig - Result: Positive - Source: OECD Test Guideline 406
e) germ cell mutagenicity:
Test: Mutagenesis - Species: Generic Bacteria - Result: Positive - Source: 12
f) carcinogenicity:
No data available for the product
g) Reproductive toxicity/toxicity to fertility:
No data available for the product
h) STOT-single exposure:
No data available for the product
i) STOT-repeated exposure:
No data available for the product
j) aspiration hazard:

No data available for the product

Low boiling point naphtha - unspecified - CAS: 64742-95-6

a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg - Source: OECD Test Guideline 402

b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit -Result: Negative - Source: OECD Test Guideline 404

c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit -Result: Negative - Source: OECD Test Guideline 405

d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: Guinea pig -Result: Negative - Source: OECD Test Guideline 406

e) germ cell mutagenicity:
No data available for the product

f) carcinogenicity:
No data available for the product

g) Reproductive toxicity/toxicity to fertility:
No data available for the product

h) STOT-single exposure:
No data available for the product

i) STOT-repeated exposure:
No data available for the product

j) aspiration hazard:
No data available for the product

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD Test Guideline 401

b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit -Result: Negative - Source: OECD Test Guideline 404

c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit -Result: Negative - Source: OECD Test Guideline 405

d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: Guinea pig -Result: Negative - Source: OECD Test Guideline 406

e) germ cell mutagenicity:
No data available for the product

f) carcinogenicity:
No data available for the product

g) Reproductive toxicity/toxicity to fertility:
No data available for the product

h) STOT-single exposure:
No data available for the product

i) STOT-repeated exposure:
No data available for the product

j) aspiration hazard:
No data available for the product

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
Use suitable abatement methods in order to prevent the release of the substance into the environment.

DUNAPOX BLACK SEA 125 RESIN

The product is classified: Aquatic Chronic 2 - H411

bis-[4-(2,3-epoxipropoxi)phenyl]propane; epoxy resin - CAS: 1675-54-3

a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia - Daphnia magna = 1.8 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae - Scenedesmus Subspicatus = 11 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 2 mg/l - Duration h: 96
Endpoint: NOEC - Species: Algae - Scenedesmus Subspicatus = 4.2 mg/l - Duration h: 72
Endpoint: IC50 - Species: Bacteria = 100 mg/l - Duration h: 3

2,3-epoxypropyl o-tolyl ether - CAS: 2210-79-9

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 3.95 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia - Daphnia magna = 3.3 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae - Scenedesmus Subspicatus = 5.1 mg/l - Duration h: 72

Low boiling point naphtha - unspecified - CAS: 64742-95-6

a) Aquatic acute toxicity:
Endpoint: LL50 - Species: Fish = 9.2 mg/l - Duration h: 96 - Notes: OECD TG 203
Endpoint: EC50 - Species: Daphnia - Daphnia magna = 3.2 mg/l - Duration h: 48 - Notes: OECD TG 202
Endpoint: EC50 - Species: Algae - Pseudokirchnerella subcapitata = 2.6 mg/l - Duration h: 72 - Notes: OECD TG 201

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 140 mg/l - Duration h: 96 - Notes: OECD TG 203
Endpoint: EC50 - Species: Algae - Pseudokirchnerella subcapitata > 1000 mg/l - Duration h: 96 - Notes: OECD TG 201

12.2. Persistence and degradability

No data available for the product

bis-[4-(2,3-epoxipropoxi)phenyl]propane; epoxy resin - CAS: 1675-54-3
Biodegradability: 9 - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

Low boiling point naphtha - unspecified - CAS: 64742-95-6
Biodegradability: Readily biodegradable - Test: Oxygen consumption - Duration: N.A. - %: N.A. - Notes: OECD TG 301F

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Biodegradability: Readily biodegradable - Test: Oxygen consumption - Duration: N.A. - %: N.A. - Notes: OECD TG 301F

12.3. Bioaccumulative potential

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Bioaccumulation: Bioaccumulative - Test: Log Kow - Partition coefficient n-octanol/water 1.2 - Duration: N.A. - Notes: OECD TG 117

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

No data available for the product

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

ADR-UN Number:	3082
IATA-UN Number:	3082
IMDG-UN Number:	3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(epoxy resin)
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(epoxy resin)
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(epoxy resin)

14.3. Transport hazard class(es)
ADR-Class: 9
ADR - Hazard identification number: 90
IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9

14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

14.5. Environmental hazards
ADR-Enviromental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant

14.6. Special precautions for user
ADR-Subsidiary risks: -
ADR-S.P.: 274 335 375 601
ADR-Transport category (Tunnel restriction code): 3 (-)
IATA-Passenger Aircraft: 964
IATA-Subsidiary risks: -
IATA-Cargo Aircraft: 964
IATA-S.P.: A97 A158 A197
IATA-ERG: 9L
IMDG-EmS: F-A , S-F
IMDG-Subsidiary risks: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restrictions related to the substances contained:
Restriction 29

Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: E2

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Text of phrases referred to under heading 3:
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Muta. 2	3.5/2	Germ cell mutagenicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 4: First aid measures
SECTION 5: Firefighting measures
SECTION 6: Accidental release measures
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	**Classification procedure**
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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