

Safety Data Sheet dated 3/24/2020, version 2

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name:

MAPCOAT 138-A HARDENER

Other means of identification:

Trade code:

21138000D

Recommended use of the chemical and restrictions on use

Recommended use:

Solvent based 2K polyurethane paint

Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

MAPAERO SAS

10, Avenue de la Rijole

09100 PAMIERS

FRANCE

Tel : +33 (0)5 34 01 34 01 / Fax : +33 (0)5 61 60 23 30

Competent person responsible for the safety data sheet:

PSRA_PAMIERS@akzonobel.com

Emergency phone number

800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

- ⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.
- ⚠ Warning, Acute Tox. 4, Harmful if inhaled.
- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2A, Causes serious eye irritation.
- ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
- ⚠ Warning, STOT SE 3, May cause respiratory irritation.
- ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
- ⚠ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 P264.1
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor/... if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see supplementary instructions on this label)
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use ... to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 50% hexamethylene diisocyanate, oligomers

REACH No.: 01-2119485796-17, CAS: 28182-81-2, EC: 500-060-2

⚠ A.4.2/1 Skin Sens. 1 H317

⚠ A.1/4/Inhal Acute Tox. 4 H332

⚠ A.8/3 STOT SE 3 H335

>= 10% - < 20% xylene

REACH No.: 01-2119488216-32, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

⚠ B.6/3 Flam. Liq. 3 H226

⚠ A.10/1 Asp. Tox. 1 H304

⚠ A.1/4/Dermal Acute Tox. 4 H312

⚠ A.2/2 Skin Irrit. 2 H315

⚠ A.1/4/Inhal Acute Tox. 4 H332

>= 10% - < 20% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9

⚠ B.6/3 Flam. Liq. 3 H226

>= 0.5% - < 2.5% ethylbenzene

REACH No.: 01-2119489370-35, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4

⚠ A.9/2 STOT RE 2 H373

⚠ B.6/2 Flam. Liq. 2 H225

⚠ A.10/1 Asp. Tox. 1 H304

⚠ A.1/4/Inhal Acute Tox. 4 H332

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

None

Indication of 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:

None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

In case of fire: Use ... to extinguish.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

- Wear personal protection equipment.
- Remove all sources of ignition.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Provide adequate ventilation.
- Use appropriate respiratory protection.
- See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

- Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Do not use on extensive surface areas in premises where there are occupants.
- Use localized ventilation system.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- See also section 8 for recommended protective equipment.
- Advice on general occupational hygiene:
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

- Stored between 5°C and 35°C (41°F and 95°F) in full and sealed original packaging.
- Always keep in a well ventilated place.
- Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
- Avoid accumulating electrostatic charge.
- Keep away from food, drink and feed.
- Incompatible materials:
 - None in particular.
- Instructions as regards storage premises:
 - Cool and adequately ventilated.
 - Safety electric system.
- Storage temperature:
 - Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

- hexamethylene diisocyanate, oligomers - CAS: 28182-81-2
 - OEL Type: VLE - TWA: 1 mg/m³
- xylylene - CAS: 1330-20-7
 - OEL Type: VLE - TWA(8h): 442 mg/m³, 100 ppm
 - OEL Type: VME - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm
 - OEL Type: TWA - TWA(8h): 221 mg/m³, 50 ppm
 - OEL Type: EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm
 - OEL Type: ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm
 - OEL Type: AGS - TWA(8h): 440 mg/m³, 100 ppm - STEL: 880 mg/m³, 200 ppm
 - OEL Type: MAK-TMW - TWA(8h): 221 mg/m³, 50 ppm
 - OEL Type: MAK-KZW - STEL(15min): 442 mg/m³, 100 ppm
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 - OEL Type: VME - TWA(8h): 275 mg/m³, 50 ppm
 - OEL Type: VLE - TWA(8h): 550 mg/m³, 110 ppm - STEL: 550 mg/m³, 100 ppm
 - OEL Type: AGW - TWA(8h): 270 mg/m³, 50 ppm - STEL: 270 mg/m³, 50 ppm
 - OEL Type: AGS - TWA(8h): 270 mg/m³, 50 ppm - STEL: 270 mg/m³, 50 ppm
 - OEL Type: WEL - TWA(8h): 274 mg/m³, 50 ppm - STEL: 548 mg/m³, 100 ppm
 - OEL Type: TWA - TWA(8h): 275 mg/m³, 50 ppm

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- OEL Type: EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm
- OEL Type: MAK-TMW - TWA(8h): 275 mg/m³, 50 ppm
- OEL Type: MAK-KZW - STEL(15min): 550 mg/m³, 100 ppm

ethylbenzene - CAS: 100-41-4

- OEL Type: EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm
- OEL Type: ACGIH - TWA(8h): 20 ppm
- OEL Type: MAK-TMW - TWA(8h): 440 mg/m³, 100 ppm
- OEL Type: MAK-KZW - STEL(15min): 800 mg/m³, 200 ppm

DNEL Exposure Limit Values

hexamethylene diisocyanate, oligomers - CAS: 28182-81-2

Worker Professional: 0.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

xylylene - CAS: 1330-20-7

Worker Professional: 422 mg/m³ - Consumer: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 422 mg/m³ - Consumer: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 3182 mg/kg - Consumer: 1872 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 221 mg/m³ - Consumer: 65.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 289 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 77 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 12.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 221 mg/m³ - Consumer: 65.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

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

Worker Professional: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 153.5 mg/kg - Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethylbenzene - CAS: 100-41-4

Worker Professional: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/m³ - Consumer: 1.6 mg/kg bw/day - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 180 mg/kg bw/day - Consumer: 108 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

hexamethylene diisocyanate, oligomers - CAS: 28182-81-2

Target: Fresh Water - Value: 0.127 mg/l

Target: Marine water - Value: 0.0127 mg/l

Target: Freshwater sediments - Value: 266701 mg/kg

Target: Marine water sediments - Value: 26670 mg/kg

Target: Microorganisms in sewage treatments - Value: 88 mg/l

Target: Soil (agricultural) - Value: 53183 mg/kg

xylylene - CAS: 1330-20-7

Target: Fresh Water - Value: 0.327 mg/l
Target: Marine water - Value: 0.327 mg/l
Target: Microorganisms in sewage treatments - Value: 6.58 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Marine water sediments - Value: 12.46 mg/kg
Target: Soil (agricultural) - Value: 2.31 mg/kg
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: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
Target: Microorganisms in sewage treatments - Value: 100 mg/l
Target: Soil (agricultural) - Value: 0.29 mg/kg
ethylbenzene - CAS: 100-41-4
Target: Fresh Water - Value: 0.327 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Soil (agricultural) - Value: 2.31 mg/kg
Target: Microorganisms in sewage treatments - Value: 6.58 mg/l

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Before handling, wear safety goggles with protective sides accordance with standard EN166.

Protection for skin:

Wear protective clothing against solid chemicals and particles suspended in the air (type 5) in accordance with standard EN13982-1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Protection for hands:

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Respiratory protection:

Full-/Half-/quarter-face masks (DIN EN 136/140).

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 : A2

Particle filter according to standard EN143 : P3

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Liquid
Odour:	Solvent odor
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	-13 °F
Initial boiling point and boiling range:	280.4 °F
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	73.4 <= FP <= 131 °F
Evaporation rate:	N.A.
Vapour pressure:	<110 kPa (1.10 bar)
Relative density:	>1

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Solubility in water:	N.A.	
Solubility in oil:	N.A.	
Partition coefficient (n-octanol/water):	N.A.	N.A.
Auto-ignition temperature:	869 °F	
Decomposition temperature:	N.A.	
Viscosity:	N.A.	
Miscibility:	N.A.	
Fat Solubility:	N.A.	
Conductivity:	N.A.	
Substance Groups relevant properties:	N.A.	

10. STABILITY AND REACTIVITY

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None

Conditions to avoid

- Flames and hot surfaces
- The accumulation of electrostatic discharges
- The humidity
- The heat

Incompatible materials

- Acids
- Oxidizing agents
- Bases
- Water

Hazardous decomposition products

- Nitrogen oxides
- Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

hexamethylene diisocyanate, oligomers - CAS: 28182-81-2

a) acute toxicity:

- Test: LD50 - Route: Oral - Species: Rat > 2500 mg/kg - Source: OCDE 423
- Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OCDE 402
- Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
- Test: NOAEL - Route: Inhalation - Species: Rat = 3.3 mg/m³ - Source: OCDE 413

xylene - CAS: 1330-20-7

a) acute toxicity:

- Test: LC50 - Route: Inhalation Gas - Species: Rat = 4500 ppm
- Test: LD50 - Route: Skin = 1100 mg/kg
- Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
- Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg
- Test: LC50 - Route: Inhalation - Species: Rat = 5000 ppm - Duration: 4h

d) respiratory or skin sensitisation:

- Test: Skin Sensitization - Route: Skin - Species: Mouse Negative - Source: OCDE 429

e) germ cell mutagenicity:

- Test: Mutagenesis - Route: Inhalation - Species: Rabbit Negative 4350 mg/kg

f) carcinogenicity:

- Test: Carcinogenicity - Route: Oral - Species: Rat Negative 500 mg/kg - Source: DIRECTIVE 67/548/CEE

- g) reproductive toxicity:
Test: NOAEL - Route: Inhalation - Species: Rat > 500 ppm
- i) STOT-repeated exposure:
Test: NOAEL - Route: Oral - Species: Rat = 150 mg/kg - Duration: 90days - Source: OCDE 408
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 8532 mg/kg
Test: LC0 - Route: Inhalation Vapour - Species: Rat > 4345 ppm - Duration: 6H
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg
Test: LC50 - Route: Inhalation Mist - Species: Rat > 23.8 mg/l - Duration: 6H
Test: LC50 - Route: Inhalation Dust - Species: Rat > 23.8 mg/l - Duration: 6H
- b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
- c) serious eye damage/irritation:
Test: Eye Irritant - Route: Skin - Species: Rabbit Negative
- d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin Positive
- e) germ cell mutagenicity:
Test: Mutagenesis - Species: Salmonella Typhimurium Negative
- ethylbenzene - CAS: 100-41-4
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 5000 mg/kg
Test: LC0 - Route: Inhalation - Species: Rat = 4000 ppm - Duration: 4h

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

xylene - Group 3

ethylbenzene - Group 2B.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.
hexamethylene diisocyanate, oligomers - CAS: 28182-81-2

a) Aquatic acute toxicity:

Endpoint: LC50 Fish > 100 mg/l - Duration h: 96

Endpoint: EC50 Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 Algae > 1000 mg/l - Duration h: 72

Endpoint: EC50 Bacteria = 3828 mg/l - Duration h: 3

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 Algae = 4.36 mg/l - Duration h: 72 - Notes: OCDE 201

Endpoint: CI50 Daphnia = 1 mg/l - Duration h: 24 - Notes: OCDE 202

Endpoint: LC50 Fish = 2.6 mg/l - Duration h: 96 - Notes: OCDE 203

Endpoint: NOEC Algae = 0.44 mg/l - Duration h: 73

Endpoint: EC50 Daphnia > 1 mg/l - Duration h: 48

Endpoint: EC50 Daphnia = 10 mg/l - Duration h: 48

Endpoint: CI50 Algae = 2.2 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC Daphnia = 0.96 mg/l - Duration h: 168

- Endpoint: NOEC Fish > 1.3 mg/l - Duration h: 1344
- c) Bacteria toxicity:
Endpoint: EC50 = 96 mg/l - Duration h: 24
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) Aquatic acute toxicity:
Endpoint: LC50 Fish = 134 mg/l - Duration h: 96
Endpoint: EC50 Daphnia > 500 mg/l - Duration h: 48
Endpoint: EC50 Algae > 1000 mg/l - Duration h: 72
Endpoint: EC10 Bacteria > 1000 mg/l - Duration h: 0.5
Endpoint: LC50 Fish > 100 mg/l - Duration h: 96
- b) Aquatic chronic toxicity:
Endpoint: NOEC Fish = 47.5 mg/l - Duration h: 336
Endpoint: NOEC Daphnia > 100 mg/l - Duration h: 504
- c) Bacteria toxicity:
Bacteria > 1000 mg/l - Duration h: 0.5
ethylbenzene - CAS: 100-41-4
- a) Aquatic acute toxicity:
Endpoint: LC50 Fish = 4.2 mg/l - Duration h: 96
Endpoint: EC50 Bacteria = 1.8 mg/l - Duration h: 48
- c) Bacteria toxicity:
Endpoint: CE0 Bacteria = 12 mg/l
- e) Plant toxicity:
Endpoint: EC50 Algae = 4.6 mg/l - Duration h: 72
- Persistence and degradability
hexamethylene diisocyanate, oligomers - CAS: 28182-81-2
Biodegradability: Non-readily biodegradable - Duration h: 28days - %: 1
xylene - CAS: 1330-20-7
Biodegradability: Readily biodegradable - Duration h: 28days - %: 87.8 - Notes: OCDE 301F (41 mg/L)
- Bioaccumulative potential
N.A.
- Mobility in soil
xylene - CAS: 1330-20-7
Test: Koc 39-365 - Notes: OCDE 121
- Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

- Waste treatment and disposal 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.
- Additional disposal information:
Do not discharge into drains, water, nature.

14. TRANSPORT INFORMATION



UN number	
ADR-UN Number:	1263
DOT number:	UN1263
IATA-UN Number:	1263
IMDG-UN Number:	1263

UN proper shipping name

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ADR-Shipping Name:	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
DOT-Shipping Name:	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base or Paint related material including paint thinning, drying, removing, or reducing compound
IATA-Shipping Name:	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
IMDG-Shipping Name:	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
Transport hazard class(es)	
ADR-Class:	3
DOT Hazard Class:	3
IATA-Class:	3
IMDG-Class:	3
Packing group	
ADR-Packing Group:	III
DOT Packing group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
Environmental hazards	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	N.A.
Special precautions	
DOT Special provisions:	B1, B52, IB3, T2, TP1, TP29
ADR-Subsidiary hazards:	-
ADR-S.P.:	163 640E 650
ADR-Transport category (Tunnel restriction code):	3 (D/E)
IATA-Passenger Aircraft:	355
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72
IATA-ERG:	3L
IMDG-EmS:	F-E , S-E
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

15. REGULATORY INFORMATION

Volatile Organic compounds - VOCs = 340.00 g/l
Volatile CMR substances = 0.00 %
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %
Organic Carbon - C = 0.00

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

None.

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances: no substances listed.

Section 304 - Hazardous substances: no substances listed.

Section 313 - Toxic chemical list: xylene, ethylbenzene.

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CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: xylene
ethylbenzene.

CAA - Clean Air Act

CAA listed substances:

xylene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

ethylbenzene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

xylene is listed in CWA Section 311, Section 304

ethylbenzene is listed in CWA Section 304, Section 307, Section 311.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

ethylbenzene - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

xylene

ethylbenzene.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

xylene

ethylbenzene.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

xylene

ethylbenzene.

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H225 Highly flammable liquid and vapour.

Safety Data Sheet dated 3/24/2020, version 2

Sections modified from the previous revision:

1. IDENTIFICATION

2. HAZARD(S) IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

4. FIRST-AID MEASURES

5. FIRE-FIGHTING MEASURES

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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11. TOXICOLOGICAL INFORMATION

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15. REGULATORY INFORMATION

Safety Data Sheet

MAPCOAT 138-A HARDENER



Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average