

Safety Data Sheet

MAPECOAT GUARD 155/A

Safety Data Sheet dated: 11/17/2025 - version 2

Date of first edition: 05/30/2025



1. IDENTIFICATION

Product identifier used on the label

Mixture identification:

Trade name: MAPECOAT GUARD 155/A

Trade code: 905TH9990

Recommended use of the chemical and restrictions on use

Recommended use: Coating

Restrictions on use: Not available

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

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsible: RDProductSafety@mapei.com

Emergency 24 hour numbers:

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. HAZARD(S) IDENTIFICATION



Classification of the chemical

Flammable Liquids — Category 3

Skin irritation, Category 2

Eye irritation, Category 2A

Skin Sensitization, Category 1

Specific target organ toxicity following repeated exposure, Category 2

Acute aquatic hazard, category 3

Chronic (long term) aquatic hazard, category 3

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Harmful to aquatic life

Harmful to aquatic life with long lasting effects.

Label elements

Hazard pictograms and Signal Word



Warning

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

H402 Harmful to aquatic life

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharge.

P260 Do not breathe mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

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 [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P332+P313 If skin irritation 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.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with applicable regulations.

Hazards associated with foreseeable chemical reactions

None

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a dust hazard)

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not Relevant

Mixtures

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

List of components

Qty	Name	Ident. Numb.	Classification
≥20 - <25 %	titanium dioxide; Dioxotitanium	CAS:13463-67-7 EC:236-675-5 EU CLP Index:022-006-00-2	Carc. 2, H351
≥5 - <10 %	bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS:1675-54-3, 25085-99-8 EC:216-823-5 EU CLP Index:603-073-00-2	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2A, H319; Aquatic Chronic 2, H411; Aquatic Acute 2, H401
≥5 - <10 %	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	CAS:25036-25-3 EC:607-500-3	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317
≥5 - <10 %	methyl ethyl ketone; Butanone	CAS:78-93-3 EC:201-159-0 EU CLP Index:606-002-00-3	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336

≥5 - <10 %	xylenes; 1,2 dimethylbenzene	CAS:1330-20-7 EC:215-535-7 EU CLP Index:601-022-00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT RE 2, H373; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Aquatic Chronic 3, H412
≥5 - <10 %	propylene glycol monomethyl ether; 1-methoxy-2-propanol	CAS:107-98-2 EC:203-539-1 EU CLP Index:603-064-00-3	Flam. Liq. 3, H226; STOT SE 3, H336
≥1 - <2.5 %	reaction mass of ethylbenzene and xylene	EC:905-588-0	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304
≥0.6 - <1 %	ethyl benzene; aethylbenzol	CAS:100-41-4 EC:202-849-4 EU CLP Index:601-023-00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT RE 2, H373; Asp. Tox. 1, H304

The actual concentration of the components listed above is withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Obtain medical attention if skin related symptoms persist.
- Remove contaminated clothing immediately and dispose of 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, get medical attention showing the SDS and the hazard label.

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

Eye irritation
Eye damages
Skin Irritation
Erythema

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:

(see paragraph 4.1)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

- In case of fire, use a dry powder fire extinguisher 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: Not available
- Explosive properties: Not available
- Oxidizing properties: Not available

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.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
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.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.
Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
Store in a well-ventilated place. Keep cool.
Avoid direct exposure to sunlight.
Opened containers must be carefully resealed and kept upright to prevent leakage.
Flammable mixtures may accumulate within the headspace of containers at room temperature.
Storage at higher temperatures requires an appropriate evaluation of preventive and protection measures to be adopted.
Storage temperature must be defined on the basis of a proper risk evaluation. Refer to other sections for additional information.
Avoid accumulating electrostatic charge.
Keep away from food, drink and feed.
Electrical installations / working materials must comply with the technological safety standards.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
titanium dioxide; Dioxotitanium CAS: 13463-67-7	MAK	GERMANY	Long Term: 0.3 mg/m3
	OSHA	AUSTRALIA	Short Term: Ceiling - 10 mg/m3
	ACGIH		Long Term: 10 mg/m3
	MAK	AUSTRIA	Long Term: 5 mg/m3
	MAK	SWITZERLAN	Long Term: 3 mg/m3; Short Term: 16 mg/m3

D

methyl ethyl ketone;
Butanone
CAS: 78-93-3

MAK	GERMANY	Long Term: 600 mg/m ³ - 200 ppm
OSHA		Long Term: 590 mg/m ³ - 200 ppm
ACGIH		Long Term: 200 ppm; Short Term: 300 ppm CNS and PNS impairment;upper respiratory tract irritation;
MAK	AUSTRIA	Long Term: 295 mg/m ³ - 100 ppm; Short Term: 590 mg/m ³ - 200 ppm
MAK	SWITZERLAND	Long Term: 590 mg/m ³ - 200 ppm
ACGIH		Long Term: 200 ppm; Short Term: 300 ppm CNS and PNS impairment;upper respiratory tract irritation
EU		Long Term: 600 mg/m ³ - 200 ppm; Short Term: 900 mg/m ³ - 300 ppm

xylenes; 1,2
dimethylbenzene
CAS: 1330-20-7

ACGIH		Long Term: 100 ppm; Short Term: 150 ppm A4, BEI - URT and eye irr, CNS impair
MAK	GERMANY	Long Term: 440 mg/m ³ - 100 ppm
OSHA		Long Term: 435 mg/m ³ - 100 ppm
ACGIH		Long Term: 100 ppm; Short Term: 150 ppm A4 - Not Classifiable as a Human Carcinogen;CNS impairment;eye and upper respiratory tract irritation
MAK	AUSTRIA	Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm
MAK	SWITZERLAND	Long Term: 435 mg/m ³ - 100 ppm
MAK	GERMANY	Long Term: 220 mg/m ³ - 50 ppm
EU		Long Term: 221 mg/m ³ - 50 ppm; Short Term: 442 mg/m ³ - 100 ppm Skin

propylene glycol monomethyl
ether; 1-methoxy-2-propanol
CAS: 107-98-2

ACGIH		Long Term: 50 ppm; Short Term: 100 ppm A4 - Eye and URT irr
MAK	GERMANY	Long Term: 370 mg/m ³ - 100 ppm
ACGIH		Long Term: 50 ppm; Short Term: 100 ppm A4 - Not Classifiable as a Human Carcinogen;eye and upper respiratory tract irritation
MAK	AUSTRIA	Long Term: 187 mg/m ³ - 50 ppm; Short Term: 187 mg/m ³ - 50 ppm
MAK	SWITZERLAND	Long Term: 360 mg/m ³ - 100 ppm
MAK	AUSTRIA	Short Term: Ceiling - 187 mg/m ³ - 50 ppm
EU		Long Term: 375 mg/m ³ - 100 ppm; Short Term: 563 mg/m ³ - 150 ppm Skin

ethyl benzene; aethylbenzol
CAS: 100-41-4

ACGIH		Long Term: 20 ppm A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
MAK	GERMANY	Long Term: 88 mg/m ³ - 20 ppm
OSHA		Long Term: 435 mg/m ³ - 100 ppm
ACGIH		Long Term: 20 ppm A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans;upper respiratory tract irritation;kidney damage (nephropathy);cochlear impairment
MAK	AUSTRIA	Long Term: 440 mg/m ³ - 100 ppm; Short Term: 880 mg/m ³ - 200 ppm
MAK	SWITZERLAND	Long Term: 220 mg/m ³ - 50 ppm
EU		Long Term: 442 mg/m ³ - 100 ppm; Short Term: 884 mg/m ³ - 200 ppm Skin

Biological limit values

methyl ethyl ketone;
Butanone
CAS: 78-93-3

Biological Indicator: MEK; Sampling Period: End of turn
Value: 2 mg/L; Medium: Urine
Remark: Not Specific

xylenes; 1,2
dimethylbenzene
CAS: 1330-20-7

Biological Indicator: Methyl uric Acid; Sampling Period: End of turn
Value: 1.5 GGCREAT; Medium: Urine

ethyl benzene;
aethylbenzol
CAS: 100-41-4

Biological Indicator: Mandelic acid and fenilgliossalico; Sampling Period: End of turn
Value: 0.15 GGCREAT; Medium: Urine
Remark: Not Specific

Predicted No Effect Concentration (PNEC) values

titanium dioxide;
Dioxotitanium
CAS: 13463-67-7

Exposure Route: Fresh Water; PNEC Limit: 0.184 mg/l

Exposure Route: Soil; PNEC Limit: 100 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Exposure Route: Marine water; PNEC Limit: 0.0184 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 100 mg/kg

Exposure Route: Freshwater sediments; PNEC Limit: 1000 mg/kg

Exposure Route: Intermittent release; PNEC Limit: 0.193 mg/l

methyl ethyl ketone;
Butanone
CAS: 78-93-3

Exposure Route: Freshwater sediments; PNEC Limit: 284.74 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 284.7 mg/kg

Exposure Route: Fresh Water; PNEC Limit: 55.8 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.327 mg/l

xylenes; 1,2
dimethylbenzene
CAS: 1330-20-7

Exposure Route: Marine water; PNEC Limit: 0.327 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 12.46 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 12.46 mg/kg

Exposure Route: Soil; PNEC Limit: 2.31 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6.58 mg/l

Exposure Route: Intermittent release; PNEC Limit: 0.32 mg/l

propylene glycol
monomethyl ether; 1-
methoxy-2-propanol
CAS: 107-98-2

Exposure Route: Fresh Water; PNEC Limit: 10 mg/l

Exposure Route: Intermittent release; PNEC Limit: 100 mg/l

Exposure Route: Marine water; PNEC Limit: 1 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 52.3 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 5.2 mg/kg

Exposure Route: Soil; PNEC Limit: 4.59 mg/kg

Derived No Effect Level (DNEL) values

titanium dioxide;
Dioxotitanium
CAS: 13463-67-7

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 0.17 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Consumer: 0.028 mg/m³

methyl ethyl ketone;
Butanone
CAS: 78-93-3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 1161 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 600 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 412 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 106 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 31 mg/kg

xylenes; 1,2
dimethylbenzene
CAS: 1330-20-7

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 289 mg/m3; Consumer: 174 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 289 mg/m3; Consumer: 174 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 180 mg/kg; Consumer: 108 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 77 mg/m3; Consumer: 14.8 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 1.6 mg/kg

propylene glycol
monomethyl ether; 1-
methoxy-2-propanol
CAS: 107-98-2

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 369 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 553.5 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 553.5 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 183 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 43.9 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 78 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 33 mg/m3

Appropriate engineering controls: Not available

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Liquid
Appearance and colour:	liquid various
Odour:	characteristic
Odour threshold:	No data available
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	150 °C (302 °F)

Flammability:	The product is classified Flam. Liq. 3
Upper/lower flammability or explosive limits:	No data available
Flash point:	34 °C (93 °F)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	Not Relevant
Viscosity:	No data available
Kinematic viscosity:	No data available
Solubility in water:	No data available
Solubility in oil:	No data available
Partition coefficient (n-octanol/water):	No data available
Vapour pressure:	No data available
Evaporation rate:	No data available
Relative density:	1.71 g/cm ³
Vapour density:	No data available

Particle characteristics:

Particle size:	No data available
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Other information

Explosive properties:	No data available
Oxidizing properties:	No data available
Solid/gas flammability:	No data available
Substance Groups relevant properties:	No data available
Miscibility:	No data available
Fat Solubility:	No data available
Conductivity:	No data available

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

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin irritation, Category 2(H315)

c) serious eye damage/irritation	The product is classified: Eye irritation, Category 2A(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sensitization, Category 1(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	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	The product is classified: Specific target organ toxicity following repeated exposure, Category 2(H373)
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

titanium dioxide; Dioxotitanium	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg LD50 Skin Rat > 2000 mg/m3 LC50 Inhalation Dust Rat > 6.82 mg/l 4h LD50 Skin Rabbit > 10000 mg/kg
bis-[4-(2,3-epoxipropoxy)phenyl] propane	a) acute toxicity	LD50 Skin Rabbit = 20 mg/kg LD50 Oral Rat = 11300 µL/kg
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis[oxirane]	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LD50 Skin Rat > 2000 mg/kg
methyl ethyl ketone; Butanone	a) acute toxicity	LC50 Inhalation Mouse 40 mg/l LD50 Oral Rat = 3460 mg/kg LD50 Skin Rabbit = 6480 mg/kg LC50 Inhalation Vapour Rat = 5 mg/l 1h
xylenes; 1,2-dimethylbenzene	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LC50 Inhalation Vapour Rat = 11 mg/l 4h LD50 Skin Rabbit = 3200 mg/kg LD50 Skin Rabbit > 4350 mg/kg LC50 Inhalation Rat = 29.08 mg/l 4h LD50 Oral Rat = 3500 mg/kg
	e) germ cell mutagenicity	NOAEL Inhalation Rat > 2000 ppm
	f) carcinogenicity	NOAEL Oral Rat = 500 mg/kg NOAEL Oral Rat = 1000 mg/kg
	g) reproductive toxicity	NOAEL Inhalation Rat = 500 ppm
propylene glycol monomethyl ether; 1-methoxy-2-propanol	a) acute toxicity	LD50 Oral Rat = 5300 mg/kg

		LD50 Skin Rabbit = 13000 mg/kg
		LC50 Inhalation Rat = 28.8 mg/l 4h
		LD50 Skin Rabbit = 13 g/kg
		LC50 Inhalation Rat > 7559 ppm 6h
		LD50 Oral Rat = 5000 mg/kg
	h) STOT-single exposure	NOAEL Oral Rat = 919 mg/kg
		NOAEL Inhalation Rat = 3.7 mg/kg
		NOAEL Skin Rabbit > 1000 mg/kg
ethyl benzene; aethylbenzol	a) acute toxicity	LD50 Skin Rabbit = 5000 mg/kg
		LD50 Oral Rat = 5460 mg/kg bw
		LC50 Inhalation Rat = 17.4 mg/l 4h

Substance(s) listed on the IARC Monographs:

titanium dioxide; Dioxotitanium	Group 2B
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Group 3
xylenes; 1,2 dimethylbenzene	Group 3
ethyl benzene; aethylbenzol	Group 2B

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

titanium dioxide; Dioxotitanium
ethyl benzene; aethylbenzol

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

titanium dioxide; Dioxotitanium

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

None

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

The product is classified: Acute aquatic hazard, category 3(H402), Chronic (long term) aquatic hazard, category 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
titanium dioxide; Dioxotitanium	CAS: 13463-67-7 - EINECS: 236-675-5 - INDEX: 022-006-00-2	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae = 16 mg/L 72
		a) Aquatic acute toxicity : NOEC Algae = 5600 mg/L 72
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h
bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS: 1675-54-3, 25085-99-8 - EINECS: 216-823-5 - INDEX: 603-073-00-2	a) Aquatic acute toxicity : LC50 Fish = 2 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia = 1.8 mg/L 48h
methyl ethyl ketone; Butanone	CAS: 78-93-3 - EINECS: 201-159-0 - INDEX: 606-002-00-3	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 3130 mg/L 96h EPA

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 5091 mg/L 48h
IUCLID

xylenes; 1,2 dimethylbenzene

CAS: 1330-20-7
- EINECS: 215-
535-7 - INDEX:
601-022-00-9

a) Aquatic acute toxicity : EC50 Daphnia = 165 mg/L 48

a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96

a) Aquatic acute toxicity : EC50 Algae = 2.2 mg/L 72

c) Bacteria toxicity : EC50 = 96 mg/L 24

b) Aquatic chronic toxicity : NOEC Fish > 1.3 mg/L

b) Aquatic chronic toxicity : NOEC Daphnia = 1.57 mg/L

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 13.4 mg/L 96h
EPA

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 2.661 mg/L 96h
EPA

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 13.5 mg/L 96h
IUCLID

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 13.1 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 19 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 7.711 mg/L 96h
EPA

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 23.53 mg/L 96h
EPA

a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 780 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 780 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata 30.26 mg/L 96h EPA

a) Aquatic acute toxicity : EC50 Daphnia water flea = 3.82 mg/L 48h

a) Aquatic acute toxicity : LC50 Daphnia Gammarus lacustris = 0.6 mg/L 48h

propylene glycol monomethyl
ether; 1-methoxy-2-propanol

CAS: 107-98-2 -
EINECS: 203-
539-1 - INDEX:
603-064-00-3

a) Aquatic acute toxicity : LC50 Fish = 5000 mg/L 96

a) Aquatic acute toxicity : EC50 Daphnia = 23300 mg/L 48

a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 96

a) Aquatic acute toxicity : LC50 Bacteria > 1000 mg/L 3

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 20.8 g/l 96h
IUCLID

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 23300 mg/L 48h
IUCLID

Persistence and degradability

Component

propylene glycol monomethyl
ether; 1-methoxy-2-propanol

Persitence/Degradability:

Readily biodegradable

Duration

28 d

Notes:

86% - OCSE N.301 E

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. TRANSPORT INFORMATION

UN number

DOT-UN Number: UN1263

ADR-UN number: 1263

IATA-Un number: 1263

IMDG-Un number: 1263

UN proper shipping name

DOT-Proper Shipping Name: PAINT

ADR-Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

Transport hazard class(es)

DOT-Hazard Class: 3

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

Packing group

DOT Packing Group: III

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: Yes DOT-RQ - Quantity: 100 lbs

Transport in bulk according to IMO instruments

N.A.

Not Applicable

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): 367, B1, B52, B131, IB3, T2, TP1, TP29

DOT-Label(s): 3

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

DOT-Limited Quantity threshold: 5 L

Road and Rail (ADR-RID) :

ADR-Label: 3

ADR-Hazard identification number: 30

ADR-Transport category (Tunnel restriction code): 3 (D/E)

Air (IATA) :

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -
IATA-Erg: 3L
IATA-Special Provisioning: A3 A72 A192
Sea (IMDG) :
IMDG-Stowage and handling: Category A
IMDG-Segregation: -
IMDG-Subsidiary hazards: -
IMDG-Special Provisioning: 163 223 367 955
IMDG-EMS: F-E, [S-E]

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared according to the Hazard Communication Standard 2024 (HCS 2024)

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

titanium dioxide; Dioxotitanium	is listed in TSCA	Section 8b
bis-[4-(2,3-epoxipropoxy)phenyl]propane	is listed in TSCA	Section 8b
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis [oxirane]	is listed in TSCA	Section 8b Section 5
methyl ethyl ketone; Butanone	is listed in TSCA	Section 8b
xylene; 1,2 dimethylbenzene	is listed in TSCA	Section 8b
propylene glycol monomethyl ether; 1-methoxy-2-propanol	is listed in TSCA	Section 8b
ethyl benzene; aethylbenzol	is listed in TSCA	Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

methyl ethyl ketone; Butanone
xylene; 1,2 dimethylbenzene
ethyl benzene; aethylbenzol

Section 313 - Toxic chemical list:

xylene; 1,2 dimethylbenzene
ethyl benzene; aethylbenzol

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

methyl ethyl ketone; Butanone	Reportable quantity:	5000	pounds
xylene; 1,2 dimethylbenzene	Reportable quantity:	100	pounds
ethyl benzene; aethylbenzol	Reportable quantity:	1000	pounds

CAA - Clean Air Act

CAA listed substances:

methyl ethyl ketone; Butanone	is listed in CAA	Section 112(b) - HON
xylene; 1,2 dimethylbenzene	is listed in CAA	Section 112(b) - HAP Section 112(b) - HON
propylene glycol monomethyl ether; 1-methoxy-2-propanol	is listed in CAA	Section 112(b) - HON
ethyl benzene; aethylbenzol	is listed in CAA	Section 112(b) - HAP Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

xylene; 1,2 dimethylbenzene	is listed in CWA	Section 311
ethyl benzene; aethylbenzol	is listed in CWA	Section 307 Section 311

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

titanium dioxide; Dioxotitanium Listed as carcinogen
ethyl benzene; aethylbenzol Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

titanium dioxide; Dioxotitanium
methyl ethyl ketone; Butanone
xylenes; 1,2 dimethylbenzene
propylene glycol monomethyl ether; 1-methoxy-2-propanol
ethyl benzene; aethylbenzol

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

titanium dioxide; Dioxotitanium
methyl ethyl ketone; Butanone
xylenes; 1,2 dimethylbenzene
propylene glycol monomethyl ether; 1-methoxy-2-propanol
ethyl benzene; aethylbenzol

New Jersey Right to know

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

titanium dioxide; Dioxotitanium
methyl ethyl ketone; Butanone
xylenes; 1,2 dimethylbenzene
propylene glycol monomethyl ether; 1-methoxy-2-propanol
ethyl benzene; aethylbenzol

Canada - Federal regulations

DSL - Domestic Substances List

NDSL - Non Domestic Substances List

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

16. OTHER INFORMATION

Safety Data Sheet dated: 11/17/2025 - version 2

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
A.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
A.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
A.2/2	Skin Irrit. 2	Skin irritation, Category 2
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.6/2	Carc. 2	Carcinogenicity, Category 2
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
A.9/2	STOT RE 2	Specific target organ toxicity following repeated exposure, Category 2
B.6/2	Flam. Liq. 2	Flammable Liquids — Category 2
B.6/3	Flam. Liq. 3	Flammable Liquids — Category 3
US-HAE/A2	Aquatic Acute 2	Acute aquatic hazard, category 2
US-HAE/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
US-HAE/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
 IMDG: International Maritime Code for Dangerous Goods.
 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).
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 CLP: Classification, Labeling, Packaging.
 EU CLP Index: Index number as reported in Annex VI to EU Reg. 1272/2008
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 INCI: International Nomenclature of Cosmetic Ingredients.
 CAS: Chemical Abstracts Service (division of the American Chemical Society).
 GefStoffVO: Ordinance on Hazardous Substances, Germany.
 LC50: Lethal concentration, for 50 percent of test population.
 LD50: Lethal dose, for 50 percent of test population.
 DNEL: Derived No Effect Level.
 PNEC: Predicted No Effect Concentration.
 TLV: Threshold Limiting Value.
 TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
 STEL: Short Term Exposure limit.
 STOT: Specific Target Organ Toxicity.
 WGK: German Water Hazard Class.
 KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION