Paracoat 20/25+ Top and Base Coat

Product Ref: (HSDSPR-0721)
Issue No: 01

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Paracoat 20/25+ Top Coat (Dark Grey) & Base Coat (Light Grey).

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

Identified uses: Adhesive.

Uses advised against: No specific uses advised against are identified.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification

Physical hazards: Flam. Liq. 3 – H226

Health hazards: Skin Irrit. 2 – H315 Eye Irrit. 2 –H319 Skin Sens. 1 – H317

Environmental hazards: Aquatic Chronic 2 – H411

Physicochemical: Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. The product is flammable.

2.2 Label elements

Pictogram

Signal word: Warning

Hazard Statements:
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:
EUH204 Contains isocyanates. May produce an allergic reaction.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P303+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P313 Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulations.

Supplemental Label Information	EU limit value for this product (cat A/i): 500g/l (2010). The product contains max 300 g/l VOC. Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Contains:	ISOPHORONDIISOCYANATE HOMOPOLYMER, DIBUTYLIN DILAURATE, ISOPHORONE DI-ISOCYANATE, REACTION MASS OF BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,2,6-PENTAMETHYL-4-PIPERIDYL SEBACATE.

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

AROMTIC POLYISOCYANATE CAS number: 37273-56-6			10-30%
Classification Acute Tox. 4 – H332 Eye Irrit. 2 – H319 Skin Sens. 1B – H317			

XYLENE CAS number: 1330-20-7	EC number: 215-535-7		10-30%
Classification Flam. Liq. 3 – H226 Acute Tox. 4 – H312 Acute Tox. 4 – H332 Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 STOT SE 3 – H335 STOT RE 2 – H373 Asp. Tox. 1 – H304		REACH registration number: 01-2119488216-32-0030	

DISPHENYL TOLYL PHOSPHATE CAS number: 26444-49-5			5-10%
Classification Aquatic Acute 1- H400 Aquatic Chronic 1 -H410		REACH registration number: 01-2119511174-52-0000	

Paracoat 20/25+ Top and Base Coat

ISOPHORONDIISOCYANATE HOMOPOLYMER CAS number: 53880-05-0 EC number: 500-125-5	5-10%
Classification Skin Sens. 1 – H317 STOT SE 3 – H335 STOT SE 3 – H335 STOT SE 3 – H335	REACH registration number: 01-2119511174-52-0000

N,N-DIBENZYLIDEN POLYOXPROPYLENE DIAMINE (POLYMER) CAS number: 136855-71-5	1-5%
Classification Skin Irrit. 2 – H315	

TITANIUM DIOXIDE - CLH CAS number: 13463-67-7	1-5%
Classification Carc. 2 – H351	REACH registration number: 01-2119489379-17-0006

1,6-HEXANEDIYL-BIS(2-(2-(1-ETHYLPENTYL-3-OXAZOLIDINYL)ETHYL)CARBAMATE CAS number: 140921-24-0 EC number: 411-700-4	1-5%
Classification Skin Sens. 1 – H317	REACH registration number: 01-2119890830-32-0000

XYLENE ISOMERS MIXTURE (UP TO 20% ETHYLBENZENE) CAS number: 1330-20-7 EC number: 905-588-0	1-5%
Classification Flam. Liq. 3 – H226 Acute Tox. 4 – H312 Acute Tox. 4 – H332 Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 STOT SE 3 – H335 STOT RE 2 – H373 Asp. Tox. 1 – H304	REACH registration number: 01-2119488216-32-0000

2-METHOXY-1-METHYLETHYL ACETATE CAS number: 108-65-6 EC number: 203-603-9	1-5%
Classification Flam. Liq. 3 – H226	REACH registration number: 01-2119475791-29-0001

CARBAMIC ACID, 5-ISOCYANATO-2 (4)-METHYLPHENYL,2-ETHYLHEXYL ESTER CAS number: -	1-5%
Classification Skin Irrit. 2 – H315	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

General information:	Get medical attention if any discomfort continues.
Inhalation:	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion:	Rinse mouth thoroughly with water. Get medical attention.
Skin contact:	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact:	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

General information:	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation:	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion:	May cause discomfort if swallowed. May cause stomach pain or vomiting. Skin contact Prolonged skin contact may cause redness and irritation.
Eye contact:	May cause temporary eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:	No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media: Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards: The product is flammable. Heating may generate flammable vapours. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. The product is highly flammable.

Hazardous combustion products: Does not decompose when used and stored as recommended.

5.3 Advice for firefighters

Protective actions during firefighting: Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

Special protective equipment for firefighters: Wear chemical protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental precautions

Environmental precautions: Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains or watercourses or onto the ground.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

6.4 Reference to other sections

Reference together sections: Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Usage precautions: Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions: Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container.

Storage class: Flammable liquid storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m3

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m3

XYLENE ISOMERS MIXTURE (with up to 20% Ethylbenzene)

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m3

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m3

2-METHOXY-1-METHYLETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 274 mg/m3(Sk) Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 548 mg/m3(Sk)

Ingredient comments WEL = Workplace Exposure Limits

DISPHENYL TOLYL PHOSPHATE (CAS: 26444-49-5)

DNEL

Workers - Inhalation; Short term systemic effects: 28 mg/m³
Workers - Inhalation; Long term systemic effects: 3.5 mg/m³
Workers - Dermal; Short term systemic effects: 4 mg/kg/day
Workers - Dermal; Long term systemic effects: 0.5 mg/kg/day

PNEC

- Soil; 0.245 mg/kg/day
- STP; 1000 mg/l
- Fresh water, Sediment; 1.23 mg/kg/day
- Fresh water; 0.022 mg/l

ISOPHORONDIISOCYANATE HOMOPOLYMER (CAS: 53880-05-0)

DNEL

Workers - Inhalation; Long term local effects: 0.29 mg/m³
Workers - Inhalation; Short term local effects: 0.58 mg/m³

PNEC

- Fresh water; 0.0015 mg/l
- marine water; 0.00015 mg/l
- STP; 100 mg/l

XYLENE ISOMERS MIXTURE (with up to 20 % Ethylbenzene) (CAS: 1330-20-7)

DNEL

Workers - Inhalation; Short term systemic effects: 289 mg/m³
Workers - Inhalation; Short term local effects: 289 mg/m³
Workers - Dermal; Short term systemic effects: 180 mg/kg
Workers - Inhalation; Long term systemic effects: 77 mg/m³
Consumer - Inhalation; Short term systemic effects: 174 mg/m³
Consumer - Inhalation; Short term local effects: 174 mg/m³
Consumer - Dermal; Long term systemic effects: 108 mg/kg
Consumer - Oral; Long term systemic effects: 1.6 mg/kg
Workers - Inhalation; Long term systemic effects: 14.8 mg/m³

PNEC

- Fresh water; 0.327 mg/l
marine water; 0.327mg/l

- Sediment (Freshwater); 12.46 mg/kg
- Sediment (Marinewater); 12.46 mg/kg
- Soil; 2.31 mg/kg
- STP; 6.58 mg/l
- Intermittent release; 0.327 mg/l

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

DNEL

Workers - Dermal; Long term systemic effects: 153.5 mg/kg bw/day
Workers - Inhalation; Long term systemic effects: 275 mg/m^3
General population - Dermal; Long term systemic effects: 54.8 mg/kg bw/day
General population - Inhalation; Long term systemic effects: 33 mg/m^3
General population - Oral; Long term systemic effects: 1.67 mg/kg bw/day

PNEC

- Fresh water; 0.635 mg/l
- marine water; 0.0635 mg/l
- Intermittent release; 6.35 mg/l
- STP; 100 mg/l
- Sediment; 3.29 mg/kg dry weight
- Sediment (Marinewater); 0.329 mg/kg dry weight
- Soil; 0.29 mg/kg dry weight

8.2 Exposure controls

Protective equipment

Appropriate engineering controls: Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection: The following protection should be worn: Chemical splash goggles.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

Hygiene measures: Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash hands after handling. Eating, smoking and water fountains prohibited in immediate work area.

Respiratory protection: In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type AX.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Coloured liquid.
Colour:	Various colours.
Initial boiling point and range:	Estimated
137-143°C @ Flash point:	Estimated
value. 25°C	
Evaporation rate:	Not determined.
Upper/lower flammability or Explosive limits:	Estimated value: 1.1%-7%
Relative density:	1.49 @ 20°C
Solubility (ies):	Insoluble in water.
Auto-ignition temperature:	Estimated value 528°C
Viscosity	Kinematic viscosity>20.5mm²/s

9.2 Other information

Particle size:	No information
Volatility	Volatile
Volatile organic compound 300 g/l VOC	EU limit value for this product (cat A/i): 500g/l (2010). This product contains max

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity: There are no known reactivity hazards associated with this product.

10.2 Chemical Stability

Stability: No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions: Not applicable. Not relevant.

10.4 Conditions to avoid

Conditions to avoid: Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong alkalis.

10.6 Hazardous decomposition products

Hazardous decomposition products: Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity – dermal

ATE dermal (mg/kg):	9,661.84
ATE inhalation (gases ppm):	67,067.07
ATE inhalation (dusts/mists):	19.21

Skin corrosion/irritation

Skin corrosion/irritation Causes eye irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

Respiratory sensitization No information available

Respiratory sensitization

Skin sensitisation

Skin sensitisation No information available.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Reproductive toxicity

Reproductive toxicity - Development This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Classification not possible.

Toxicological information on ingredients.

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Prepolymer based on aromatic polyisocyanate

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5.000.0
Species	Rat
ATE oral (mg/kg)	5.000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} dust/mist mg/l)	3.82
Species	Rat
ATE inhalation (dusts/mists mg/l)	3.82

XYLENE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4.000.0
Species	Rat
ATE oral (mg/kg)	4.000.0

Acute toxicity - dermal

ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} gases ppmV)	6,700.0
Species	Rat
AT ATE inhalation (gases ppm)	6,700.0

Carcinogenicity

IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

DISPHENYL TOLYL PHOSPHATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE dermal (mg/kg)	5,000.0

ISOPHORONDIISOCYANATE HOMOPOLYMER

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LD_{50} dust/mist mg/l)	5.01
Species	Rat
ATE inhalation (dust/mist mg/l)	5.01

XYLENE ISOMERS MIXTURE (with up to 20 % Ethylbenzene)

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

Acute toxicity - dermal

ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} gases ppmV)	6,700.0
Species	Rat
ATE inhalation (gases ppm)	6,700.0

Carcinogenicity

IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

2-METHOXY-1-METHYLETHYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	8,532.0
Species	Rat
ATE oral (mg/kg)	8,532.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	35.7
Species	Rat
Acute toxicity inhalation (LC_{50} dust/mist mg/l)	23.8
Species	Rat
ATE inhalation (vapours mg/l)	35.7
ATE inhalation (dusts/mists mg/l)	23.8

TOLUENE-2,4-DI-ISOCYANATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5.11
Species	Rat
ATE oral (mg/kg)	5.11

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	9,400.0
Species	Rabbit
ATE dermal (mg/kg)	9,400.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	0.107
Species	Rat
Acute toxicity inhalation (vapours mg/l)	0.10

SATNNANE DIMETHYLBIS[(1-OXONEODECYLOXY)

Acute toxicity - oral

ATE oral (mg/kg)	500

ETHYLBENZENE

Acute toxicity -inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	0.107
Species	Rat
ATE inhalation (vapours mg/l)	0.107

Carcinogenicity

IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Paracoat 20/25+ Top and Base Coat

ISOPHORONE DI-ISOCYANATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,814.0
Species	Rat
ATE oral (mg/kg)	4,814.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	7,000.0
Species	Rat
ATE dermal (mg/kg)	7,000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	0.04
Species	Rat
ATE inhalation (dusts/mists mg/l)	5.0

ISO-BUTANOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	6,400.0
Species	Rat
ATE oral (mg/kg)	6,400.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	4,240.0
Species	Rabbit

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecological information on ingredients.

prepolymer based on aromatic polyisocyanate

Acute aquatic toxicity

Acute toxicity – microorganisms	EC_{50}, : 10000 mg/l, Activated sludge

XYLENE

Acute aquatic toxicity

Acute toxicity - fish	48 hours: > 1-10 mg/l, Freshwater fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 11.5 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 100 mg/l, Algae

DISPHENYL TOLYL PHOSPHATE

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1

Chronic aquatic toxicity

M factor (Chronic)	1

XYLENE ISOMERS MIXTURE (with up to 20 % Ethylbenzene)

Acute aquatic toxicity

Acute toxicity - fish	48 hours: > 1-10 mg/l, Freshwater fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 11.5 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 100 mg/l, Algae

2-METHOXY-1-METHYLETHYL ACETATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 100 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 1000 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC_{20}, 0.5 hours: 1000 mg/l, Activated sludge

TOLUENE-2,4-DI-ISOCYANATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 133 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 12.5 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 hours: 100 mg/l, Activated sludge
Acute toxicity - microorganisms	NOEC, 21 days: 1.1 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates

REACTION MASS OF BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL 1,2,2,2,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

Acute aquatic toxicity

LE(C)$_{50}$	$0.1 < L(E)C50 \leq 1$
M factor (Acute)	1

Chronic aquatic toxicity

M factor (Chronic) 1

ISOPHORONE DI-ISOCYANATE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 72.3 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 35 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 70 mg/l, Scenedesmus subspicatus

2,2,4-TRIMETHYLPENTANE

Acute aquatic toxicity

LE(C)$_{50}$	$0.1 < L(E)C50 \leq 1$
M factor (Acute)	1

Chronic aquatic toxicity

M factor (Chronic) 1

ISO-BUTANOL

Acute aquatic toxicity

Acute toxicity - fish **LC_{50}, 96 hours: 1.220 mg/l, Pimephales promelas (Fat-head Minnow)**

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Ecological information on ingredients.

XYLENE

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
Partition coefficient	Not available.

XYLENE ISOMERS MIXTURE (with up to 20 % Ethylbenzene)

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.

12.4 Mobility

Mobility: The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Ecological information on ingredients.

XYLENE

Mobility	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

XYLENE ISOMERS MIXTURE (with up to 20 % Ethylbenzene)

Mobility	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse effects

Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General information:	Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods:	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No (ADR/RID):	1139
UN No (IMDG):	1139
UN No (ICAO):	1139
UN No (AND):	1139

14.2 UN proper shipping name

Proper shipping name (ADR/RID): COATING SOLUTION

Proper shipping name (IMDG): COATING SOLUTION

Proper shipping name (ICAO): COATING SOLUTION

Proper shipping name (AND): COATING SOLUTION

14.3 Transport hazard class(es)

ADR/RID class:	3
ADR/RID classification code:	F1
ADR/RID label:	3
IMDG class:	3
ICAO class/division:	3
ADN class:	3

Transport labels

14.4 Packing group

ADR/RID packing group:	II
IMDG packing group:	II
ADN packing group:	II
ICAO packing:	II

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6 Special precautions for user

EmS:	F-E, S-E
ADR transport category:	2
Emergency Action Code:	3YE
Hazard Identification Number (ADR/RID):	33
Tunnel restriction code:	(D/E)

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

National regulations: Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation: Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision comments	Updated VOC information added EUH211 for titanium dioxide reclass - sept 2021
Issued by: Revision date:	Compliance
Revision date:	19/07/2021
Revision:	23
Supersedes date	26/01/2021
SDS number	20966

Hazard statements in full 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.
H351 Suspected of causing cancer by inhalation.
H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

Store Between Store Between 5'c - 25'c