

W-THANE DOUBLE FUNCTION BR ORANGE RAL 2002 A COMPONENT



Safety Data Sheet

According to ABNT NBR 14725: 2023
Issue date: 4/23/2025 Revision date: 1/29/2026 Version: 5.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : W-THANE DOUBLE FUNCTION BR ORANGE RAL 2002 A COMPONENT
Product code : 13426301
Type of product : Paint
Product group : Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Coating providing surfaces with protection, waterproofing, finishing and resistance, etc.

1.4. Supplier's details

WEG TINTAS LTDA - GRUPO WEG

Guaramirim - Santa Catarina / Brasil

Rodovia BR 280 – Km 50, 6.918 – Bloco A. Caixa D'Água – 89270-000 - +55 (47) 3276-4000

Mauá - São Paulo / Brasil

Rua Dr. Ulysses Guimarães, nº 918 – Bloco A. Loteamento Industrial Coral 09372-050 – Fone: +55 (11) 4547-6100

Cabo de Santo Agostinho - Pernambuco / Brasil

Via VII, 314 Distrito Industrial DIPER – 54590-000 - Fone: +55 (81) 3512-3000

Betim - Minas Gerais / Brasil

Avenida Juiz Marco Tulio Isaac, 2994 Betim Industrial – 32671-198, Fone: +55 (31) 3268-0687 / +55 (31) 3268-0686

Macaé - Rio de Janeiro / Brasil

Rua Itacolomi, 528 – Quadra H – Lote 11 Cabiúnas – 27977-340

Atotonilco de Tula - Estado de Hidalgo / México

Av. Hidalgo, lote 40, 41, 42 y 43 - Parque Industrial Bicentenario, CP 42980 - Fone: +52 (55) 5321-4231

Buenos Aires - Provincia de Buenos Aires / Argentina

Av. José Melián, 2983 - Parque Industrial Burzaco, B1852 - Fone: +54 (11) 4299-8000

1.5. Emergency phone number

Emergency number :

24-HOUR EMERGENCY - AMBIPAR		0800 117 2020	
CHEMTREC international number		+1-703-527-3887 e 1-800-424-9300	
Country	City	Local Number	Toll-Free Number
Austria	Vienna	+43-1-3649237	
Austria			0800 293702
China		400 120 4937	
France		+33-975181407	

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Germany			0800-181-7059
India	Bangalore	+91 8071 279 207	
India			000 800 1007 141
Italy	Milan	+39-02 4555 7031	
Italy			800 789 767
Netherlands		+31-85 888 0596	
South Africa			080-001-4676
United Kingdom	London	+44 20 3807 3798	
South korea			080-880-0454
Japan			0800-300-5842

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725: 2023)

Flammable liquids, Category 3
Acute toxicity (dermal), Category 5
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2A
Skin sensitisation, Category 1
Germ cell mutagenicity, Category 1B
Carcinogenicity, Category 1B
Reproductive toxicity, Category 2
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Specific target organ toxicity — Repeated exposure, Category 1
Hazardous to the aquatic environment - Acute Hazard, Category 2
Hazardous to the aquatic environment - Chronic Hazard, Category 2

2.2. GHS Label elements, including precautionary statements

GHS BR labelling

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Danger

Hazard statements (GHS BR)

: H226 - Flammable liquid and vapour
H313 - May be harmful in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H340 - May cause genetic defects.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS BR)
: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233 - Keep container tightly closed.

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P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P260 - Do not breathe dust, fume, gas, mist, vapours or spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing 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 .
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.
P308+P313 - IF exposed or concerned: Get medical advice or attention.
P312 - Call a POISON CENTER or a doctor if you feel unwell.
P314 - Get medical advice or attention as appropriate.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P337+P313 - If eye irritation persists: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P391 - Collect spillage.
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 and/or container to hazardous or special waste collection point, in accordance with local, regional, national and international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	GHS Product identifier	Conc. (% w/w)	Classification according to GHS BR (ABNT NBR 14725: 2023)
MIXED XYLENES	CAS-No.: 1330-20-7	20 – 40	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401

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Name	GHS Product identifier	Conc. (% w/w)	Classification according to GHS BR (ABNT NBR 14725: 2023)
			Aquatic Chronic 3, H412
STYRENE MONOMER	CAS-No.: 100-42-5	10 – 20	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2-methoxy-1-methylethyl acetate	CAS-No.: 108-65-6	5 – 10	Flam. Liq. 3, H226 Acute Tox. 5 (Dermal), H313 Aquatic Acute 3, H402
ISOBUTYL METHACRYLATE	CAS-No.: 97-86-9	5 – 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-ETHYLHEXYL ACRYLATE	CAS-No.: 103-11-7	5 – 10	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Nafta solvente (petróleo), aromático leve	CAS-No.: 64742-95-6	5 – 10	Flam. Liq. 3, H226 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2-HYDROXYETHYL METACRILATE	CAS-No.: 868-77-9	5 – 10	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
HYDROXYPROPYL METHACRYLATE	CAS-No.: 923-26-2	1 – 5	Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Skin Sens. 1, H317
ISOPENTYL ACETATE	CAS-No.: 123-92-2	1 – 5	Flam. Liq. 3, H226

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			Aquatic Acute 3, H402 Aquatic Chronic 3, H412
5,5'-(1H-isoindole-1,3(2H)-diylidene)dibarbituric acid	CAS-No.: 36888-99-0	1 – 5	Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Pigment Red 170	CAS-No.: 2786-76-7	1 – 5	Acute Tox. 5 (Dermal), H313
ISOPHORONE	CAS-No.: 78-59-1	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335
TERT-BUTYL PERBENZOATE	CAS-No.: 614-45-9	1 – 5	Flam. Liq. 4, H227 Self-react. C, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:vapour), H330 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
trizinc bis(orthophosphate)	CAS-No.: 7779-90-0	0.5 – 1	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ACRYLIC ACID GLACIAL MONOMER	CAS-No.: 79-10-7	0.25 – 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. People with over sensibility problems are not allowed to work or be exposed to the product.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth out with water.

4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects	: Causes damage to organs through prolonged or repeated exposure. May cause an allergic
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Symptoms/effects after inhalation	: skin reaction. Causes serious eye irritation. May cause respiratory irritation.
Symptoms/effects after skin contact	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
	: May be harmful in contact with skin. Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: stinging. Redness. Causes serious eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.
Chronic symptoms	: May cause cancer. May cause heritable genetic damage. Suspected of damaging fertility. Suspected of damaging the unborn child.

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

Notes to physician	: Treat symptomatically
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapour. The vapours are denser than air and may travel along the ground. Distance ignition possible. Agitation can cause build up of electrostatic charge. Vapours may cause fire/explosion if source of ignition is present. In case of fire and/or explosion do not breathe fumes.
Explosion hazard	: Vapours may form explosive mixture with air. Prolonged exposure to fire may cause containers to rupture/explode.

5.3. Special protective actions for fire-fighters

Precautionary measures fire	: Keep container closed when not in use. This product is not to be used under conditions of poor ventilation.
Firefighting instructions	: Get the package away from the fire if this can be done without risk. Fight fire from a safe distance or use hoses with support or cannon engine. Cool laterally with water containers exposed to flames, even after the fire is extinguished. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.
Other information	: In case of fire, corrosive and harmful gases come free.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Eliminate every possible source of ignition. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Avoid contact with skin and eyes. May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: No flames, no sparks. Eliminate all sources of ignition. Do not touch or walk on the spilled product. Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

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6.1.2. For emergency responders

Protective equipment

: Use self-contained breathing apparatus and chemically protective clothing. Gloves. Wear security glasses which protect from splashes. Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Corrosionproof suit. Equip cleanup crew with proper protection.

Emergency procedures

: Keep away from combustible material. All equipment used when handling the product must be grounded. Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Toxic to aquatic life with long lasting effects. Do not allow product to spread into the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment

: Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up

: Absorb remaining liquid with sand or inert absorbent and remove to safe place. Absorb spilled material with sand or earth. Clean contaminated surfaces with an excess of water. Absorb spillage to prevent material damage. Take up liquid spill into absorbent material.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Flammable vapours may accumulate in the container.

Precautions for safe handling

: Provide adequate ventilation to minimize dust and/or vapour concentrations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handle carefully. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear personal protective equipment. Obtain special instructions before use. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. Ensure good ventilation of the work station. Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures

: Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep cool. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight.

Incompatible materials

: combustible materials.

Packaging materials

: Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ISOPENTYL ACETATE 123-92-2

USA - OSHA - Occupational Exposure Limits

Local name	Isomyl acetate
OSHA PEL TWA	525 mg/m ³
	100 ppm

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ISOPENTYL ACETATE 123-92-2

Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
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ISOPHORONE 78-59-1

USA - OSHA - Occupational Exposure Limits

Local name	Isophorone
OSHA PEL TWA	140 mg/m ³ 25 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves made of PVC. Nitrile rubber gloves

Eye protection:

Wear closed safety glasses

Skin and body protection:

Long sleeved protective clothing. Or chemical resistant apron. Safety shoes

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Orange
Odour	: Not available
Odour threshold	: Not available
pH	: Not applicable

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Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: 31 °C
Relative evaporation rate (butylacetate=1)	: Not available
Flammability	: Not available
Explosive limits	: Not available
Vapour pressure	: Not available
Relative vapour density at 20°C	: Not available
Relative density	: Not available
Density	: 0.99 – 1.19 g/cm ³
Solubility	: Material insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: 50 – 60 Seconds
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle specific surface area	: Not applicable

MIXED XYLENES1330-20-7

Boiling point	138 °C Source: ICSC
Flash point	30 °C (ASTM D 93)
Auto-ignition temperature	≥ 528 °C Source: SRC
Vapour pressure	8.84 mm Hg at 25°C Source: SRC

STYRENE MONOMER100-42-5

Boiling point	145 °C Source: ICSC
Flash point	31 °C Source: ICSC
Auto-ignition temperature	490 °C Source: ICSC
Vapour pressure	0.67 kPa at 20°C Source: ICSC

2-ETHYLHEXYL ACRYLATE103-11-7

Boiling point	213.5 °C Source: ICSC
Flash point	86 °C Source: HSDB
Auto-ignition temperature	252 °C Source: ICSC
Vapour pressure	0.178 mm Hg at 25 °C Source: ChemIDplus

ISOBUTYL METHACRYLATE97-86-9

Boiling point	155 °C Source: Corporate Solution From Thomson Micromedex
Flash point	49 °C Source: National Institute of Technology and Evaluation
Auto-ignition temperature	390 °C Source: International Chemical Safety Cards
Vapour pressure	3.63 mm Hg Source: Corporate Solution From Thomson Micromedex

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2-HYDROXYETHYL METACRILATE868-77-9

Boiling point	250 °C Source: ICSC
Flash point	97 °C Source: ICSC
Auto-ignition temperature	375 °C Source: ECHA
Vapour pressure	0.126 mm Hg at 25 °C Source: ChemIDplus

HYDROXYPROPYL METHACRYLATE923-26-2

Boiling point	219 °C
Flash point	87 °C
Auto-ignition temperature	52.9 °C
Vapour pressure	0.072 mm Hg at 25°C Source: ChemIDplus

ACRYLIC ACID GLACIAL MONOMER79-10-7

Boiling point	141 °C Source: ICSC
Flash point	50 °C Source: HSDB
Auto-ignition temperature	395 °C Source: ICSC
Vapour pressure	413 Pa at 20°C Source: ICSC

TERT-BUTYL PERBENZOATE614-45-9

Boiling point	75 – 76 °C
Flash point	93 °C Source: HSDB
Vapour pressure	0.33 mm Hg

ISOPENTYL ACETATE123-92-2

Boiling point	142 °C
Flash point	25 °C Source: ECHA
Auto-ignition temperature	379 °C Source: ECHA
Vapour pressure	4.5 mm Hg at 20°C Source: ECHA

2-methoxy-1-methylethyl acetate108-65-6

Boiling point	145.8 °C Atm. press.: 760 mm Hg Decomposition: 'no'
Flash point	45.5 °C Atm. press.: 101,3 kPa
Auto-ignition temperature	315 °C Source: International Uniform Chemical Information Database
Vapour pressure	3.75 mm Hg Source: National Institute of Technology and Evaluation

Nafta solvente (petróleo), aromático leve64742-95-6

Boiling point	135 – 210 °C Source: NLM
Flash point	< 41 °C Source: IUCLID
Vapour pressure	8 hPa at 20°C Source: IUCLID

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ISOPHORONE78-59-1

Boiling point	215.32 °C Source: HSDB
Flash point	82 °C Source: ECHA
Auto-ignition temperature	460 °C Source: ECHA
Vapour pressure	0.438 mm Hg at 25°C Source: HSDB

9.2. Data relevant with regard to physical hazard classes

No additional information available

9.3. Further safety characteristics

No additional information available

SECTION 10: Stability and reactivity

Chemical stability	: In use may form flammable/explosive vapour-air mixture.
Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with hot surfaces. High temperature. Avoid formation of vapours.
Hazardous decomposition products	: May liberate toxic gases. On exposure to high temperature, may decompose, releasing corrosive gases.
Incompatible materials	: Materiais plásticos solúveis em Xileno. Não armazenar com materiais explosivos, gases inflamáveis e/ou tóxicos, substâncias oxidantes, corrosivas e materiais que possam. Combustible materials.
Possibility of hazardous reactions	: Liquids/vapours may ignite or react with other materials.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Handling temperature	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not available
Acute toxicity (dermal)	: May be harmful in contact with skin.
Acute toxicity (inhalation)	: Not available

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ATE BR (dermal)	2418.459 mg/kg bodyweight
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MIXED XYLENES (1330-20-7)

LD50 oral rat	3523 mg/kg Source: ECHA
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat [ppm]	5922 ppm

STYRENE MONOMER (100-42-5)

LD50 oral rat	5000 mg/kg Source: ECHA
LD50 oral	> 6000 mg/kg bodyweight Animal: hamster, Syrian, Animal sex: male
LD50 dermal rat	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	11.8 mg/l Source: ECHA

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2-ETHYLHEXYL ACRYLATE (103-11-7)

LD50 oral rat	4000 – 6000 mg/kg Source: OECD Screening Information Data Set
LD50 dermal rabbit	> 10000 mg/kg Source: OECD Screening Information Data Set

2-HYDROXYETHYL METACRILATE (868-77-9)

LD50 oral rat	> 4000 mg/kg Source: OECD Screening Information Data Set
LD50 dermal rabbit	> 3000 mg/kg Source: OECD Screening Information Data Set

ACRYLIC ACID GLACIAL MONOMER (79-10-7)

LD50 oral rat	146 – 468 mg/kg
LD50 dermal rabbit	640 mg/kg

TERT-BUTYL PERBENZOATE (614-45-9)

LD50 oral rat	1012 mg/kg
LC50 Inhalation - Rat	1.01 g/m³

ISOPENTYL ACETATE (123-92-2)

LD50 dermal rabbit	> 5000 mg/kg Source: ChemIDPLUS
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2-methoxy-1-methylethyl acetate (108-65-6)

LD50 oral rat	8532 mg/kg Source: International Uniform Chemical Information Database
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 5000 mg/kg Source: International Uniform Chemical Information Database

Pigment Red 170 (2786-76-7)

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
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Nafta solvente (petróleo), aromático leve (64742-95-6)

LD50 oral rat	8400 mg/kg Source: RTECS
LD50 dermal rat	> 2000 mg/kg Source: ECHA
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Vapours)	5.16 mg/l Source: ECHA

5,5'-(1H-isoindole-1,3(2H)-diylidene)dibarbituric acid (36888-99-0)

LD50 oral rat	> 10000 mg/kg Source: KOSHANET
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ISOPHORONE (78-59-1)

LD50 oral rat	1500 mg/kg Source: ECHA, HSDB, ChemIDplus
LC50 Inhalation - Rat (Dust/Mist)	7 mg/l Source: ECHA

trizinc bis(orthophosphate) (7779-90-0)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 5700 mg/m³ Source: ECHA

Skin corrosion/irritation : Causes skin irritation.

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pH: Not applicable

MIXED XYLENES (1330-20-7)

pH	7
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HYDROXYPROPYL METHACRYLATE (923-26-2)

pH	6
----	---

ISOPENTYL ACETATE (123-92-2)

pH	Not applicable
----	----------------

Pigment Red 170 (2786-76-7)

pH	6.5 – 8.5
----	-----------

Serious eye damage/irritation : Causes serious eye irritation.
pH: Not applicable

MIXED XYLENES (1330-20-7)

pH	7
----	---

HYDROXYPROPYL METHACRYLATE (923-26-2)

pH	6
----	---

ISOPENTYL ACETATE (123-92-2)

pH	Not applicable
----	----------------

Pigment Red 170 (2786-76-7)

pH	6.5 – 8.5
----	-----------

Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : May cause genetic defects.
Carcinogenicity : May cause cancer.

MIXED XYLENES (1330-20-7)

IARC group	3 - Not classifiable
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STYRENE MONOMER (100-42-5)

IARC group	2B - Possibly carcinogenic to humans
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2-ETHYLHEXYL ACRYLATE (103-11-7)

IARC group	3 - Not classifiable
------------	----------------------

ACRYLIC ACID GLACIAL MONOMER (79-10-7)

IARC group	3 - Not classifiable
------------	----------------------

ISOPHORONE (78-59-1)

IARC group	2B - Possibly carcinogenic to humans
------------	--------------------------------------

Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : May cause respiratory irritation.

MIXED XYLENES (1330-20-7)

STOT-single exposure	May cause respiratory irritation.
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STYRENE MONOMER (100-42-5)

STOT-single exposure	May cause respiratory irritation.
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2-ETHYLHEXYL ACRYLATE (103-11-7)	
STOT-single exposure	May cause respiratory irritation.
ISOBUTYL METHACRYLATE (97-86-9)	
STOT-single exposure	May cause respiratory irritation.
Nafta solvente (petróleo), aromático leve (64742-95-6)	
STOT-single exposure	May cause respiratory irritation.
ISOPHORONE (78-59-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.	
MIXED XYLENES (1330-20-7)	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
STYRENE MONOMER (100-42-5)	
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat
LOAEC (inhalation, rat, vapour, 90 days)	0.21 mg/l air Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat
NOAEL (subchronic, oral, animal/male, 90 days)	10 mg/kg bodyweight Animal: mouse, Animal sex: male
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
2-methoxy-1-methylethyl acetate (108-65-6)	
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
trizinc bis(orthophosphate) (7779-90-0)	
LOAEL (oral, rat, 90 days)	53.8 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard : Not classified.	
W-THANE DOUBLE FUNCTION BR ORANGE RAL 2002 A COMPONENT	
Viscosity, kinematic	50 – 60 mm²/s
MIXED XYLENES (1330-20-7)	
Viscosity, kinematic	≈ 0.76 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
STYRENE MONOMER (100-42-5)	
Viscosity, kinematic	0.77 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'
2-ETHYLHEXYL ACRYLATE (103-11-7)	
Viscosity, kinematic	1.966 mm²/s

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2-methoxy-1-methylethyl acetate (108-65-6)

Viscosity, kinematic	1.182 mm ² /s
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Nafta solvente (petróleo), aromático leve (64742-95-6)

Viscosity, kinematic	< 1 mm ² /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm ² /s)'
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11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Causes damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: May be harmful in contact with skin. Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: stinging. Redness. Causes serious eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.
Chronic symptoms	: May cause cancer. May cause heritable genetic damage. Suspected of damaging fertility. Suspected of damaging the unborn child.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects. Toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

MIXED XYLENES1330-20-7

LC50 - Fish [1]	2.6 mg/l Source: ECHA
EC50 - Crustacea [1]	3.4 mg/l Test organisms (species): Ceriodaphnia dubia
ErC50 algae	2.2 mg/l
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'

STYRENE MONOMER100-42-5

LC50 - Fish [1]	10 mg/l Source: ECHA
EC50 - Crustacea [1]	4.7 mg/l Source: ECHA
EC50 72h - Algae [1]	4.9 mg/l Source: ECHA
EC50 96h - Algae [1]	6.3 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	2.06 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	1.01 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

2-ETHYLHEXYL ACRYLATE103-11-7

LC50 - Fish [1]	1.8 mg/l Source: OECD Screening Information Data Set
EC50 - Crustacea [1]	1.3 mg/l Source: OECD Screening Information Data Set

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2-ETHYLHEXYL ACRYLATE103-11-7

EC50 72h - Algae [1]	44 mg/l Source: International Uniform Chemical Information Database
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ISOBUTYL METHACRYLATE97-86-9

LC50 - Fish [1]	20 mg/l Source: International Uniform Chemical Information Database
EC50 - Crustacea [1]	23 mg/l Source: International Uniform Chemical Information Database
EC50 96h - Algae [1]	0.29 mg/l Source: International Uniform Chemical Information Database

2-HYDROXYETHYL METACRYLATE868-77-9

LC50 - Fish [1]	> 100 mg/l Source: OECD Screening Information Data Set
EC50 - Crustacea [1]	380 mg/l Source: OECD Screening Information Data Set
EC50 72h - Algae [1]	345 mg/l Source: OECD Screening Information Data Set

HYDROXYPROPYL METHACRYLATE923-26-2

LC50 - Fish [1]	157.065 mg/l Source: Ecological Structure Activity Relationships
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ACRYLIC ACID GLACIAL MONOMER79-10-7

LC50 - Fish [1]	27 mg/l Source: ECHA
EC50 - Crustacea [1]	95 mg/l Source: ECHA
EC50 96h - Algae [1]	0.13 mg/l Source: ECHA

TERT-BUTYL PERBENZOATE614-45-9

LC50 - Fish [1]	0.402 mg/l Source: ECOSAR
EC50 - Crustacea [1]	11 mg/l
ErC50 algae	0.8 mg/l
NOEC chronic fish	0.101 mg/l
NOEC chronic algae	0.44 mg/l

ISOPENTYL ACETATE123-92-2

LC50 - Fish [1]	36 mg/l Source: ECHA
EC50 - Crustacea [1]	42 mg/l Source: ECHA

2-methoxy-1-methylethyl acetate108-65-6

LC50 - Fish [1]	100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	500 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'

Pigment Red 1702786-76-7

LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 110 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	0.06 mg/l Source: Ecological Structure Activity Relationships

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Pigment Red 1702786-76-7	
LOEC (chronic)	> 30 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	30 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Nafta solvente (petróleo), aromático leve64742-95-6	
LC50 - Fish [1]	9.22 mg/l Source: IUCLID
EC50 - Crustacea [1]	6.14 mg/l Source: IUCLID
EC50 72h - Algae [1]	19 mg/l Source: IUCLID
5,5'-(1H-isoindole-1,3(2H)-diylidene)dibarbituric acid36888-99-0	
LC50 - Fish [1]	14451.311 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	78.445 mg/l Source: Ecological Structure Activity Relationships
ISOPHORONE78-59-1	
LC50 - Fish [1]	228 mg/l Source: ECHA
trizinc bis(orthophosphate)7779-90-0	
LC50 - Fish [1]	2 (0.14 – 2.6) mg/l
EC50 - Crustacea [1]	2.44 mg/l
EC50 72h - Algae [1]	0.14 mg/l

12.2. Persistence and degradability

W-THANE DOUBLE FUNCTION BR ORANGE RAL 2002 A COMPONENT	
Persistence and degradability	Not rapidly degradable
MIXED XYLENES1330-20-7	
Persistence and degradability	Not rapidly degradable
STYRENE MONOMER100-42-5	
Persistence and degradability	Not rapidly degradable
2-ETHYLHEXYL ACRYLATE103-11-7	
Persistence and degradability	Not rapidly degradable
ISOBUTYL METHACRYLATE97-86-9	
Persistence and degradability	Not rapidly degradable
2-HYDROXYETHYL METACRILATE868-77-9	
Persistence and degradability	Not rapidly degradable
HYDROXYPROPYL METHACRYLATE923-26-2	
Persistence and degradability	Not rapidly degradable
ACRYLIC ACID GLACIAL MONOMER79-10-7	
Persistence and degradability	Not rapidly degradable
TERT-BUTYL PERBENZOATE614-45-9	
Persistence and degradability	Not rapidly degradable

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ISOPENTYL ACETATE123-92-2	
Persistence and degradability	Not rapidly degradable
2-methoxy-1-methylethyl acetate108-65-6	
Persistence and degradability	Not rapidly degradable
Pigment Red 1702786-76-7	
Persistence and degradability	Not rapidly degradable
Nafta solvente (petróleo), aromático leve64742-95-6	
Persistence and degradability	Not rapidly degradable
5,5'-(1H-isoindole-1,3(2H)-diylidene)dibarbituric acid36888-99-0	
Persistence and degradability	Not rapidly degradable
ISOPHORONE78-59-1	
Persistence and degradability	Not rapidly degradable
trizinc bis(orthophosphate)7779-90-0	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

MIXED XYLENES1330-20-7	
Partition coefficient n-octanol/water (Log Pow)	3.15 Source: HSDB
STYRENE MONOMER100-42-5	
Partition coefficient n-octanol/water (Log Pow)	2.95 Source: HSDB, ChemIDplus
2-ETHYLHEXYL ACRYLATE103-11-7	
Partition coefficient n-octanol/water (Log Pow)	3.67 Source: ICSC
ISOBUTYL METHACRYLATE97-86-9	
Partition coefficient n-octanol/water (Log Pow)	2.95 Source: OECD Screening Information Data Set
2-HYDROXYETHYL METACRILATE868-77-9	
Partition coefficient n-octanol/water (Log Pow)	0.42 Source: ICSC
HYDROXYPROPYL METHACRYLATE923-26-2	
Partition coefficient n-octanol/water (Log Pow)	0.97 Source: ChemIDplus
ACRYLIC ACID GLACIAL MONOMER79-10-7	
Partition coefficient n-octanol/water (Log Pow)	0.36 Source: ICSC
TERT-BUTYL PERBENZOATE614-45-9	
Partition coefficient n-octanol/water (Log Pow)	2.89
ISOPENTYL ACETATE123-92-2	
Partition coefficient n-octanol/water (Log Pow)	2.13 Source: ICSC
2-methoxy-1-methylethyl acetate108-65-6	
Partition coefficient n-octanol/water (Log Pow)	0.43 Source: International Uniform Chemical Information Database

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Pigment Red 1702786-76-7

Partition coefficient n-octanol/water (Log Pow)	6.04 Source: Ecological Structure Activity Relationships
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Nafta solvente (petróleo), aromático leve64742-95-6

Partition coefficient n-octanol/water (Log Pow)	2.1 – 6 Source: IUCLID
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5,5'-(1H-isoindole-1,3(2H)-diylidene)dibarbituric acid36888-99-0

Partition coefficient n-octanol/water (Log Pow)	-1.91 Source: Ecological Structure Activity Relationships
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ISOPHORONE78-59-1

Partition coefficient n-octanol/water (Log Pow)	1.7 Source: HSDB
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12.4. Mobility in soil

2-ETHYLHEXYL ACRYLATE103-11-7

Mobility in soil	54954
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ACRYLIC ACID GLACIAL MONOMER79-10-7

Mobility in soil	6 – 137 Source: ECHA
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5,5'-(1H-isoindole-1,3(2H)-diylidene)dibarbituric acid36888-99-0

Mobility in soil	0.6266 Source: EPI Suite
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12.5. Other adverse effects

Hazardous to the ozone layer : Not available

SECTION 13: Disposal considerations

Waste treatment methods	: Must follow special treatment according to local regulation.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Flammable vapours may accumulate in the container. Do not re-use empty containers.

SECTION 14: Transport information

14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

ANTT	IMDG	IATA
UN number		
1263	1263	1263
UN Proper Shipping Name		
TINTA	PAINT	Paint
Transport document description		
Not applicable	UN 1263 PAINT, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (31°C c.c.)	UN 1263 Paint, 3, III

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Transport hazard class(es)		
3	3	3
Danger labels		
3	3	3
	 	
Subsidiary risk		
Not applicable	Not applicable	Not applicable
Risk Number		
30	Not applicable	Not applicable
Packing group		
III	III	III
Special provisions		
163,223,367	163,223,367,955	A3,A72,A192
Dangerous for the environment		
Yes	Yes	Yes

14.2 Other informations

No additional information available

SECTION 15: Regulatory information

15.1. National regulations

Brazil Local Regulations

: Standard ABNT NBR 14725.
Federal Decree no. 10.088, of 5 November 2019 – Promulgates Convention no. 170 of the WLO, relating to Safety in the Use of Chemicals in the Workplace, ratified by the Federative Republic of Brazil.
Ministerial Order no. 2.770, of 5 September 2022 – Approves the new wording of Regulatory Standard No. 26
Federal Decree no. 96.044, of 18 May 1988 - Approves Regulations for Road Transportation of Hazardous Materials
Resolution no. 5998, of 03 November 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.
Law No. 12.305, of August 2, 2010 (National Policy on Solid Waste)

SECTION 16: Other information

Abbreviations and acronyms

: CAS-No. - Chemical Abstracts Service number
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF - Bioconcentration factor
EC50 - Median effective concentration
LC50 - Median lethal concentration
VOC - Volatile Organic Compounds
LD50 - Median lethal dose
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
COD - Chemical oxygen demand (COD)
ATE - Acute Toxicity Estimate
IMDG - International Maritime Dangerous Goods
IATA - International Air Transport Association
EC-No. - European Community number
vPvB - Very Persistent and Very Bioaccumulative
WGK - Water Hazard Class
IOELV - Indicative Occupational Exposure Limit Value
BLV - Biological limit value
TRGS - Technical Rules for Hazardous Substances
TLM - Median Tolerance Limit
IARC - International Agency for Research on Cancer

Important information, but not specifically described in the previous sections: This MSDS was prepared based on current knowledge about the handling of the product under normal conditions of use, according to the application specified on the packaging and recommended usage in Section 1 of this MSDS. Any other use of the product involving its combination with other materials, as well as forms of use different from those indicated, are the user's responsibility. The company advises that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace it is responsibility of the company user of the product to provide training of its employees and contractors about the possible risks arising from exposure to the chemical. We reserve the right to change the information contained in this document without prior notice, due to the improvement and continuous evolution of the product and technical knowledge.

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