

HARDENER EP 88 HT RU B COMP

Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 4/7/2026 Revision date: 4/14/2026 Version: 29.0



SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : HARDENER EP 88 HT RU B COMP
Product code : 15858141
Type of product : Catalyst
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 : Uses in coatings - Curing agent for component A.

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	
Germany			0800-181-7059

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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 (oral), Category 4
Acute toxicity (dermal), Category 5
Acute toxicity (inhalation:dust,mist) Category 4
Skin corrosion/irritation, Category 1B
Skin sensitisation, Category 1
Germ cell mutagenicity, Category 1B
Carcinogenicity, Category 1B
Reproductive toxicity, Category 2
Specific target organ toxicity — Repeated exposure, Category 1
Hazardous to the aquatic environment - Acute Hazard, Category 1
Hazardous to the aquatic environment - Chronic Hazard, Category 1

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
H302+H332 - Harmful if swallowed or if inhaled
H313 - May be harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
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.
H410 - Very toxic to aquatic life with long lasting effects
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.
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.

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.
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.

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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.
P301+P312 - IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P310 - Immediately call a POISON CENTER or a doctor.
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).
P330 - Rinse mouth.
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P391 - Collect spillage.
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)
BENZYL ALCOHOL	CAS-No.: 100-51-6	20 – 40	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(meth	CAS-No.: 113930-69-1	20 – 40	Acute Tox. 4 (Oral), H302 STOT RE 1, H372

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Name	GHS Product identifier	Conc. (% w/w)	Classification according to GHS BR (ABNT NBR 14725: 2023)
N-Oleil-1,3-diaminopropano	CAS-No.: 7173-62-8	10 – 20	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ISOPHORONE DIAMINE	CAS-No.: 2855-13-2	10 – 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1, H314 Skin Sens. 1A, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	CAS-No.: 90-72-2	5 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Naphtha (petroleum), refined light solvent	CAS-No.: 64741-84-0	5 – 10	Flam. Liq. 2, H225 Acute Tox. 5 (Dermal), H313 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 1, H410
BENZENE-1,3-DIMETHANEAMINE	CAS-No.: 1477-55-0	5 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
SALICYLIC ACID	CAS-No.: 69-72-7	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Harmful if swallowed. Burns.

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

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: 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 open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

- : Not expected to present a significant hazard under anticipated conditions of normal use.
- : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
- : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Hygiene measures

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Storage conditions

Packaging materials

- : Ground/bond container and receiving equipment.
- : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
- : Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

Environmental exposure controls

- : Ensure good ventilation of the work station.
- : Avoid release to the environment.

8.3. Individual protection measures

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless
Odour	: characteristic
Odour threshold	: Not available
pH	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flash point	: 60 °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	: 0.98 – 1.04 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	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle specific surface area	: Not applicable

Naphtha (petroleum), refined light solvent64741-84-0

Boiling point	35 – 165 °C Source: IUCLID
Flash point	< 21 °C Source: IUCLID
Auto-ignition temperature	≥ 280 – ≤ 465

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL90-72-2

Boiling point	130 – 135 °C
Flash point	≥ 160 °C
Vapour pressure	0.075 mm Hg

N-Oleil-1,3-diaminopropano7173-62-8

Boiling point	> 150 °C Atm. press.: 101325 Pa
Flash point	184 °C Atm. press.: 1 atm

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N-Oleil-1,3-diaminopropano7173-62-8

Vapour pressure	0.0015 Pa Temp.: 20 °C
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SALICYLIC ACID69-72-7

Boiling point	211 °C at 20 torr Source: HSDB
Flash point	157 °C Source: HSDB
Auto-ignition temperature	540 °C Source: ICSC
Vapour pressure	0.000082 mm Hg at 25 °C Source: ChemIDplus

BENZYL ALCOHOL100-51-6

Boiling point	205 °C
Flash point	93 °C
Auto-ignition temperature	436 °C
Vapour pressure	13.2 Pa at 20°C Source: ICSC

BENZENE-1,3-DIMETHANEAMINE1477-55-0

Boiling point	272 °C Source: ECHA
Flash point	140 °C Source: ECHA
Vapour pressure	4 Pa

ISOPHORONE DIAMINE2855-13-2

Boiling point	247 °C
Flash point	117 °C
Vapour pressure	2 Pa at 20°C Source: ICSC

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(meth113930-69-1

Flash point	128 °C Atm. press.: 1 atm
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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	: Stable under normal conditions.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: Materiais plásticos solúveis em Xileno. Não armazenar com materiais explosivos, gases inflamáveis e/ou tóxicos, substâncias oxidantes, corrosivas e materiais que possam.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.

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Reactivity : Flammable liquid and vapour.
Handling temperature : No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : May be harmful in contact with skin.
Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

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ATE BR (oral)	808.659 mg/kg bodyweight
ATE BR (dermal)	2988.085 mg/kg bodyweight
ATE BR (dust,mist)	2.009 mg/l/4h

Naphtha (petroleum), refined light solvent (64741-84-0)

LD50 oral rat	> 7000 mg/kg Source: IUCLID
LD50 dermal rabbit	> 2000 mg/kg Source: IUCLID
LC50 Inhalation - Rat	≥ 43767 mg/m³
LC50 Inhalation - Rat (Dust/Mist)	> 5.04 mg/l Source: IUCLID

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

LD50 oral rat	1200 mg/kg
LD50 dermal rat	1280 mg/kg

N-Oleil-1,3-diaminopropano (7173-62-8)

LD50 oral rat	500 mg/kg bodyweight
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SALICYLIC ACID (69-72-7)

LD50 oral rat	891 mg/kg Source: International Uniform Chemical Information Database
LD50 dermal rabbit	> 10000 mg/kg Source: International Uniform Chemical Information Database
LC50 Inhalation - Rat	> 0.225 mg/kg Source: International Uniform Chemical Information Database

BENZYL ALCOHOL (100-51-6)

LD50 oral rat	1610 mg/kg Source: OECD SIDS
LD50 oral	1580 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1410 - 1770
LD50 dermal rat	2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 4.178 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	> 4.178 mg/l

BENZENE-1,3-DIMETHANEAMINE (1477-55-0)

LD50 oral rat	930 mg/kg Source: ECHA
LD50 dermal rabbit	> 3100 mg/kg Source: ECHA
LC50 Inhalation - Rat	1.34 mg/l

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BENZENE-1,3-DIMETHANEAMINE (1477-55-0)

LC50 Inhalation - Rat (Dust/Mist)	1.12 mg/l Source: ECHA
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ISOPHORONE DIAMINE (2855-13-2)

LD50 oral rat	1030 mg/kg
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Skin corrosion/irritation : Causes severe skin burns.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

pH	11
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SALICYLIC ACID (69-72-7)

pH	2.4 Source: HSDB
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ISOPHORONE DIAMINE (2855-13-2)

pH	11.6
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Serious eye damage/irritation : Assumed to cause serious eye damage

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

pH	11
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SALICYLIC ACID (69-72-7)

pH	2.4 Source: HSDB
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ISOPHORONE DIAMINE (2855-13-2)

pH	11.6
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Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not available

Naphtha (petroleum), refined light solvent (64741-84-0)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

N-Oleil-1,3-diaminopropano (7173-62-8)

NOAEL (oral, rat, 90 days)	0.4 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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BENZYL ALCOHOL (100-51-6)

NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: other:
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BENZENE-1,3-DIMETHANEAMINE (1477-55-0)

NOAEL (subacute, oral, animal/male, 28 days)	150 mg/kg bodyweight
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4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(meth (113930-69-1)

LOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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NOAEL (oral, rat, 90 days)	10 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral
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4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(meth (113930-69-1)

	Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not available

Naphtha (petroleum), refined light solvent (64741-84-0)

Viscosity, kinematic	≥ 0.35 – ≤ 0.45 mm²/s
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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

Viscosity, kinematic	154.639 mm²/s
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N-Oleil-1,3-diaminopropano (7173-62-8)

Viscosity, kinematic	13.08 mm²/s
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BENZYL ALCOHOL (100-51-6)

Viscosity, kinematic	4.851 mm²/s
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BENZENE-1,3-DIMETHANEAMINE (1477-55-0)

Viscosity, kinematic	6.78 mm²/s
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11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Harmful if swallowed. Burns.

SECTION 12: Ecological information

12.1. Toxicity

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

Naphtha (petroleum), refined light solvent64741-84-0

LC50 - Fish [1]	4.4 mg/l
EC50 - Crustacea [1]	9.74 mg/l Source: IUCLID
EC50 72h - Algae [1]	6.5 mg/l Source: IUCLID

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL90-72-2

LC50 - Fish [1]	447.821 mg/l
EC50 96h - Algae [1]	34.812 mg/l Source: ECOSAR

N-Oleil-1,3-diaminopropano7173-62-8

LC50 - Fish [1]	0.028 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	0.29 mg/l
EC50 72h - Algae [1]	0.507 mg/l
EC50 96h - Algae [1]	0.053 mg/l Source: Ecological Structure Activity Relationships

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N-Oleil-1,3-diaminopropano7173-62-8	
NOEC chronic crustacea	0.1 mg/l
NOEC chronic algae	0.188 mg/l
SALICYLIC ACID69-72-7	
LC50 - Fish [1]	90 mg/l Source: IUCLID
EC50 - Crustacea [1]	870 mg/l Source: The ECOTOXicology database
BENZYL ALCOHOL100-51-6	
LC50 - Fish [1]	10 mg/l
EC50 - Crustacea [1]	230 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	770 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	500 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	76.828 mg/l Test organisms (species): other:
NOEC chronic fish	48.897 mg/l Test organisms (species): other: Duration: '30 d'
BENZENE-1,3-DIMETHANEAMINE1477-55-0	
LC50 - Fish [1]	87.6 mg/l
EC50 - Crustacea [1]	15.2 mg/l
ErC50 algae	33.3 mg/l Source: EHCA
ISOPHORONE DIAMINE2855-13-2	
EC50 - Crustacea [1]	17.4 mg/l

12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable
Naphtha (petroleum), refined light solvent64741-84-0	
Persistence and degradability	Not rapidly degradable
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL90-72-2	
Persistence and degradability	Not rapidly degradable
N-Oleil-1,3-diaminopropano7173-62-8	
Persistence and degradability	Not rapidly degradable
SALICYLIC ACID69-72-7	
Persistence and degradability	Not rapidly degradable
BENZYL ALCOHOL100-51-6	
Persistence and degradability	Not rapidly degradable
BENZENE-1,3-DIMETHANEAMINE1477-55-0	
Persistence and degradability	Not rapidly degradable

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ISOPHORONE DIAMINE2855-13-2

Persistence and degradability	Not rapidly degradable
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4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(meth113930-69-1

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

Naphtha (petroleum), refined light solvent64741-84-0

Partition coefficient n-octanol/water (Log Pow)	2.1 – 6 Source: IUCLID
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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL90-72-2

Partition coefficient n-octanol/water (Log Pow)	0.77
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N-Oleil-1,3-diaminopropano7173-62-8

Partition coefficient n-octanol/water (Log Pow)	7.47 Source: Quantitative Structure Activity Relation
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SALICYLIC ACID69-72-7

Partition coefficient n-octanol/water (Log Pow)	2.26 Source: National Library of Medicine
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BENZYL ALCOHOL100-51-6

Partition coefficient n-octanol/water (Log Pow)	1.1
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BENZENE-1,3-DIMETHANEAMINE1477-55-0

Partition coefficient n-octanol/water (Log Pow)	0.18
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ISOPHORONE DIAMINE2855-13-2

Partition coefficient n-octanol/water (Log Pow)	1.9
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12.4. Mobility in soil

SALICYLIC ACID69-72-7

Mobility in soil	23.96 Source: Quantitative Structure Activity Relation
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12.5. Other adverse effects

Hazardous to the ozone layer : Not available

SECTION 13: Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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

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ANTT	IMDG	IATA
UN number		
1263	1263	1263
UN Proper Shipping Name		
MATERIAL RELACIONADO COM TINTAS	PAINT RELATED MATERIAL	Paint related material
Transport document description		
Not applicable	UN 1263 PAINT RELATED MATERIAL, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (60°C c.c.)	UN 1263 Paint related material, 3, III
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

No additional information available

SECTION 16: Other information

Abbreviations and acronyms

: CAS-No. - Chemical Abstracts Service number

ADN - European Agreement concerning the International Carriage of Dangerous Goods by

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Inland Waterways

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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