

W-POLI HPD 45 1 R T ORANGE A COMPONENT

Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 4/24/2025 Revision date: 2/19/2026 Version: 3.0



SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : W-POLI HPD 45 1 R T ORANGE A COMPONENT
Product code : 15411651
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 for maintenance sector

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 (dermal), Category 5
Acute toxicity (inhalation:dust,mist) Category 4
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2
Skin sensitisation, Category 1
Germ cell mutagenicity, Category 1A
Carcinogenicity, Category 1A
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
H313 - May be 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
H340 - May cause genetic defects.
H350 - May cause cancer.
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.
P261 - Avoid breathing dust, fume, gas, mist, vapours or spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.

Precautionary statements (GHS BR)

:

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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.
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+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)
AMINO RESIN FUNCTIONAL	CAS-No.: 136210-30-5	20 – 40	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Muta. 1A, H340 Carc. 1A, H350 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
AMINO RESIN FUNCTIONAL	CAS-No.: 136210-32-7	10 – 20	Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Muta. 1A, H340 Carc. 1A, H350 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
2-methoxy-1-methylethyl acetate	CAS-No.: 108-65-6	10 – 20	Flam. Liq. 3, H226 Acute Tox. 5 (Dermal), H313

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Name	GHS Product identifier	Conc. (% w/w)	Classification according to GHS BR (ABNT NBR 14725: 2023)
			Aquatic Acute 3, H402
ASPARARGINIC ACID ESTER	CAS-No.: 152637-10-0	5 – 10	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
INORGANIC PIGMENT BI/ISOINDOL VANADATE YELLOW	CAS-No.: 14059-33-7	5 – 10	STOT RE 2, H373
n-butyl acetate	CAS-No.: 123-86-4	1 – 5	Flam. Liq. 3, H226 STOT SE 3, H336 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
ORGANIC PIGMENT BENZIMIDAZOLONE YELLOW	CAS-No.: 72102-84-2	1 – 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GLYCIDOXYPROPYL TRIMETHOXSILANE	CAS-No.: 2530-83-8	1 – 5	Acute Tox. 5 (Dermal), H313 Acute Tox. 3 (Inhalation:vapour), H331 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE	CAS-No.: 41556-26-7	0.5 – 1	Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
trizinc bis(orthophosphate)	CAS-No.: 7779-90-0	0.5 – 1	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEAVY AROMATIC NAPHTA	CAS-No.: 64742-94-5	0.25 – 0.5	Flam. Liq. 4, H227 Acute Tox. 5 (Dermal), H313 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
METIL AND 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE	CAS-No.: 82919-37-7	0.1 – 0.25	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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. 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.

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4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects	: Harmful if inhaled. May cause an allergic skin reaction. Causes serious eye irritation.
Symptoms/effects after inhalation	: May cause headache, nausea and irritation of respiratory tract.
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.

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	: On exposure to high temperature, may decompose, releasing toxic gases. 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. Very 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

: Prevent dispersion by moistening spill with water or foam. 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. Clear up rapidly by scoop or vacuum. Absorb spillage to prevent material damage. Clean contaminated surfaces with an excess of water. 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. Do not get in eyes, on skin, or on clothing. 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. 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

No additional information available

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.

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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	: characteristic
Odour threshold	: Not available
pH	: 8 – 10
Melting point	: Not available
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	: 1.35 – 1.45 g/cm³
Solubility	: Material insoluble in water. Water: 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
Viscosity, dynamic	: 95 – 105 ku/kg
Particle size	: Not applicable

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Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle specific surface area	: Not applicable

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

HEAVY AROMATIC NAPHTHA64742-94-5

Boiling point	174 – 193 °C
Flash point	≥ 62 °C Source: IUCLID
Auto-ignition temperature	461 °C
Vapour pressure	4100 Pa Temp.: 25 °C

AMINO RESIN FUNCTIONAL136210-30-5

Boiling point	> 300 °C Atm. press.: 1013 hPa Decomposition: 'yes' Decomp. temp.: 234,3 °C
Flash point	100 °C

AMINO RESIN FUNCTIONAL136210-32-7

Boiling point	634.6 °C at 760mmHg Source: Lookchem
Flash point	337.6 °C Source: Lookchem

GLYCIDOXYPROPYL TRIMETHOXYSILANE2530-83-8

Boiling point	260.4 °C Atm. press.: 1013,25 hPa
Flash point	136 °C Atm. press.: 101,3 kPa
Auto-ignition temperature	400 °C
Vapour pressure	1.1 Pa Temp.: 25 °C

BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE41556-26-7

Boiling point	> 350 °C at 1013 hPa Source: International Uniform Chemical Information Database
Flash point	92 °C Source: International Uniform Chemical Information Database
Vapour pressure	0.000001 mm Hg at 20°C Source: National Institute of Technology and Evaluation

n-butyl acetate123-86-4

Boiling point	126.2 °C Atm. press.: 1013 hPa
Flash point	27 °C Atm. press.: 1013 hPa
Auto-ignition temperature	420 °C Source: ICSC
Vapour pressure	11.5 mm Hg at 25°C Source: hSDB

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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	: 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	: 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)	: Inhalation:dust,mist: Harmful if inhaled.

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ATE BR (dermal)	4968.966 mg/kg bodyweight
ATE BR (dust,mist)	3.924 mg/l/4h

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

HEAVY AROMATIC NAPHTA (64742-94-5)

LD50 oral rat	> 5000 mg/kg Source: IUCLID
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 0.59 mg/l Source: RTECS

AMINO RESIN FUNCTIONAL (136210-30-5)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 4.224 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

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AMINO RESIN FUNCTIONAL (136210-32-7)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral))
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 4.224 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

GLYCIDOXYPROPYL TRIMETHOXYSILANE (2530-83-8)

LD50 oral rat	7010 mg/kg Source: SIDS
LD50 dermal rabbit	3970 mg/kg Source: SIDS
LC50 Inhalation - Rat	> 5.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	> 5.3 mg/l Source: SIDS

BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE (41556-26-7)

LD50 oral rat	2369 – 3920 mg/kg Source: International Uniform Chemical Information Database
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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

n-butyl acetate (123-86-4)

LD50 oral rat	3200 ml/kg Source: ECHA
LD50 dermal rabbit	> 17600 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	1802 mg/l Source: ECHA

Skin corrosion/irritation : Causes skin irritation.
pH: 8 – 10

ORGANIC PIGMENT BENZIMIDAZOLONE YELLOW (72102-84-2)

pH	6 – 8
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n-butyl acetate (123-86-4)

pH	6.2 Temp.: 20 °C Concentration: 5,3 g/L
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Serious eye damage/irritation : Causes serious eye irritation.
pH: 8 – 10

ORGANIC PIGMENT BENZIMIDAZOLONE YELLOW (72102-84-2)

pH	6 – 8
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n-butyl acetate (123-86-4)

pH	6.2 Temp.: 20 °C Concentration: 5,3 g/L
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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.

HEAVY AROMATIC NAPHTA (64742-94-5)

NOAEL (animal/male, F0/P)	35 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
NOAEL (animal/female, F0/P)	125 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:

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Reproductive toxicity : Not available
STOT-single exposure : Not available

n-butyl acetate (123-86-4)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not available

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)
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INORGANIC PIGMENT BI/ISOINDOL VANADATE YELLOW (14059-33-7)

NOAEL (subacute, oral, animal/male, 28 days)	200 mg/kg bodyweight
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

HEAVY AROMATIC NAPHTA (64742-94-5)

LOAEC (inhalation, rat, vapour, 90 days)	4.71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)

AMINO RESIN FUNCTIONAL (136210-30-5)

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
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AMINO RESIN FUNCTIONAL (136210-32-7)

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
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GLYCIDOXYPROPYL TRIMETHOXYSILANE (2530-83-8)

NOAEL (oral, rat, 90 days)	≥ 1000 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), Guideline: other:
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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.

n-butyl acetate (123-86-4)

LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)

Aspiration hazard : Not available

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Viscosity, kinematic	1.979 – 2.349 mm²/s
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2-methoxy-1-methylethyl acetate (108-65-6)

Viscosity, kinematic	1.182 mm²/s
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AMINO RESIN FUNCTIONAL (136210-30-5)

Viscosity, kinematic	2031 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'
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AMINO RESIN FUNCTIONAL (136210-32-7)

Viscosity, kinematic	909.434 mm ² /s
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GLYCIDOXYPROPYL TRIMETHOXYSILANE (2530-83-8)

Viscosity, kinematic	3.43 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'
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n-butyl acetate (123-86-4)

Viscosity, kinematic	0.83 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'
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11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Harmful if inhaled. May cause an allergic skin reaction. Causes serious eye irritation.
Symptoms/effects after inhalation	: May cause headache, nausea and irritation of respiratory tract.
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.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.
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.

ORGANIC PIGMENT BENZIMIDAZOLONE YELLOW72102-84-2

LC50 - Fish [1]	254.696 mg/l Source: ECOSAR
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EC50 96h - Algae [1]	0.023 mg/l Source: ECOSAR
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2-methoxy-1-methylethyl acetate108-65-6

LC50 - Fish [1]	100 mg/l Test organisms (species): Oryzias latipes
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EC50 - Crustacea [1]	500 mg/l Test organisms (species): Daphnia magna
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EC50 72h - Algae [1]	1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
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NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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NOEC chronic fish	47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
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HEAVY AROMATIC NAPHTA64742-94-5

LC50 - Fish [1]	0.58 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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EC50 - Crustacea [1]	0.76 mg/l Test organisms (species): Daphnia magna
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EC50 - Other aquatic organisms [1]	2.9 mg/l Test organisms (species): other:
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LC50 - Fish [2]	6.1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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HEAVY AROMATIC NAPHTHA64742-94-5	
EC50 72h - Algae [1]	2.5 mg/l Source: IUCLID
AMINO RESIN FUNCTIONAL136210-30-5	
LC50 - Fish [1]	66 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	88.6 mg/l Test organisms (species): Daphnia magna
AMINO RESIN FUNCTIONAL136210-32-7	
LC50 - Fish [1]	66 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	88.6 mg/l Test organisms (species): Daphnia magna
GLYCIDOXYPROPYL TRIMETHOXYSILANE2530-83-8	
LC50 - Fish [1]	55 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	710 mg/l Source: SIDS
EC50 96h - Algae [1]	350 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	250 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 algae	350 mg/l Source: SIDS
LOEC (chronic)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	82 mg/l
NOEC chronic algae	107 mg/l
BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE41556-26-7	
LC50 - Fish [1]	0.97 mg/l Source: International Uniform Chemical Information Database
EC50 96h - Algae [1]	0.017 mg/l Source: Ecological Structure Activity Relationships
METIL AND 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE82919-37-7	
LC50 - Fish [1]	0.996 mg/l
EC50 96h - Algae [1]	0.615 mg/l Source: ECOSAR
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
n-butyl acetate123-86-4	
LC50 - Fish [1]	18 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	44 mg/l Test organisms (species): Daphnia sp.
EC50 72h - Algae [1]	397 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	246 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable
ORGANIC PIGMENT BENZIMIDAZOLONE YELLOW72102-84-2	
Persistence and degradability	Not rapidly degradable
2-methoxy-1-methylethyl acetate108-65-6	
Persistence and degradability	Not rapidly degradable
INORGANIC PIGMENT BI/ISOINDOL VANADATE YELLOW14059-33-7	
Persistence and degradability	Not rapidly degradable
HEAVY AROMATIC NAPHTHA64742-94-5	
Persistence and degradability	Not rapidly degradable
AMINO RESIN FUNCTIONAL136210-30-5	
Persistence and degradability	Not rapidly degradable
AMINO RESIN FUNCTIONAL136210-32-7	
Persistence and degradability	Not rapidly degradable
GLYCIDOXYPROPYL TRIMETHOXYSILANE2530-83-8	
Persistence and degradability	Not rapidly degradable
BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE41556-26-7	
Persistence and degradability	Not rapidly degradable
METIL AND 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE82919-37-7	
Persistence and degradability	Not rapidly degradable
trizinc bis(orthophosphate)7779-90-0	
Persistence and degradability	Not rapidly degradable
ASPARAGINIC ACID ESTER152637-10-0	
Persistence and degradability	Not rapidly degradable
n-butyl acetate123-86-4	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

2-methoxy-1-methylethyl acetate108-65-6	
Partition coefficient n-octanol/water (Log Pow)	0.43 Source: International Uniform Chemical Information Database
HEAVY AROMATIC NAPHTHA64742-94-5	
Partition coefficient n-octanol/water (Log Pow)	2.9 – 6.1 Source: IUCLID
AMINO RESIN FUNCTIONAL136210-30-5	
Partition coefficient n-octanol/water (Log Pow)	5.16 Source: Episuite
AMINO RESIN FUNCTIONAL136210-32-7	
Partition coefficient n-octanol/water (Log Pow)	5.99 Source: EPISUITE

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GLYCIDOXYPROPYL TRIMETHOXSILANE2530-83-8

Partition coefficient n-octanol/water (Log Pow) -0.92

BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE41556-26-7

Partition coefficient n-octanol/water (Log Pow) 0.37 Source: International Uniform Chemical Information Database

n-butyl acetate123-86-4

Partition coefficient n-octanol/water (Log Pow) 1.78 Source: HSDB

12.4. Mobility in soil

No additional information available

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 (60°C c.c.)	UN 1263 Paint, 3, III
Transport hazard class(es)		
3	3	3
Danger labels		
3	3	3
	 	

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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
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

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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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