



PINTUBOAT NEGRO 4118

SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** PINTUBOAT NEGRO 4118
Other means of identification:
Non-applicable
- 1.2 Recommended use of the chemical and restrictions on use:**
Relevant uses: Paint. For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
Pintuco
Autopista Medellín Bogotá Km 37 Vía Belén Rionegro Km 1
054040 Rionegro - Antioquia - Colombia
Phone.: 57 4 569 81 00
contacto@pintuco.com
http://www.pintuco.com
- 1.4 Emergency phone number:** CISTEMA SURA Colombia to 018000 51 14 14, outside Colombia (0574) 4444578

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
29 CFR 1910.1200:
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
Acute Tox. 4: Acute inhalation toxicity, Category 4, H332
Acute Tox. 4: Acute toxicity on contact with skin, Category 4, H312
Eye Irrit. 2A: Eye irritation, Category 2A, H319
Flam. Liq. 3: Flammable liquids, Category 3, H226
Skin Irrit. 2: Skin irritation, Category 2, H315
- 2.2 Label elements:**
29 CFR 1910.1200:
Warning
- 

- Hazard statements:**
Acute Tox. 4: H332 - Harmful if inhaled.
Acute Tox. 4: H312 - Harmful in contact with skin.
Eye Irrit. 2A: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
- Precautionary statements:**
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P370+P378: In case of fire: Use ABC powder extinguisher to put it out.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
- 2.3 Hazards not otherwise classified (HNOC):**
Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**
Non-applicable

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.2 Mixtures:

Chemical description: Mixture composed of chemical products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

| Identification | Chemical name/Classification | Concentration |
|----------------|-------------------------------|---------------|
| CAS: 8050-09-7 | Rosin | 10 - <25 % |
| CAS: 1317-39-1 | Dicopper oxide | 2.5 - <10 % |
| CAS: 78-83-1 | 2-methylpropan-1-ol | 2.5 - <10 % |
| CAS: 1330-20-7 | Xylene | 2.5 - <10 % |
| CAS: 137-30-4 | Ziram (ISO) | 2.5 - <10 % |
| CAS: 71-36-3 | butan-1-ol | 2.5 - <10 % |
| CAS: 108-38-3 | m-xylene | 1 - <2.5 % |
| CAS: 80-39-7 | N-ethyltoluene-4-sulphonamide | 1 - <2.5 % |
| CAS: 100-41-4 | Ethylbenzene | <1 % |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

The characteristic of Ignitability per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D001 could apply. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code. Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

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SECTION 7: HANDLING AND STORAGE (continued)

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

- Minimum Temp.: 41 °F
- Maximum Temp.: 86 °F
- Maximum time: 18 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

| Identification | Occupational exposure limits | | |
|-------------------------------------|------------------------------|---------|-----------------------|
| | 8-hour TWA PEL | 100 ppm | 300 mg/m ³ |
| 2-methylpropan-1-ol CAS: 78-83-1 | 8-hour TWA PEL | 100 ppm | 300 mg/m ³ |
| | Ceiling Values - TWA PEL | | |
| Xylene CAS: 1330-20-7 | 8-hour TWA PEL | 100 ppm | 435 mg/m ³ |
| | Ceiling Values - TWA PEL | | |
| butan-1-ol CAS: 71-36-3 | 8-hour TWA PEL | 100 ppm | 300 mg/m ³ |
| | Ceiling Values - TWA PEL | | |
| m-xylene CAS: 108-38-3 | 8-hour TWA PEL | 100 ppm | 435 mg/m ³ |
| | Ceiling Values - TWA PEL | | |
| Ethylbenzene CAS: 100-41-4 | 8-hour TWA PEL | 100 ppm | 435 mg/m ³ |
| | Ceiling Values - TWA PEL | | |

US. ACGIH Threshold Limit Values:

| Identification | Occupational exposure limits | | |
|-------------------------------------|------------------------------|---------|--|
| | TLV-TWA | 50 ppm | |
| 2-methylpropan-1-ol CAS: 78-83-1 | TLV-TWA | 50 ppm | |
| | TLV-STEL | | |
| Xylene CAS: 1330-20-7 | TLV-TWA | 100 ppm | |
| | TLV-STEL | 150 ppm | |
| butan-1-ol CAS: 71-36-3 | TLV-TWA | 15 ppm | |
| | TLV-STEL | | |
| m-xylene CAS: 108-38-3 | TLV-TWA | 100 ppm | |
| | TLV-STEL | 150 ppm | |
| Ethylbenzene CAS: 100-41-4 | TLV-TWA | 20 ppm | |
| | TLV-STEL | | |

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

| Identification | Occupational exposure limits | | |
|-------------------------------------|------------------------------|---------|-----------------------|
| | PEL | 50 ppm | 150 mg/m ³ |
| Dicopper oxide CAS: 1317-39-1 | PEL | | 1 mg/m ³ |
| | STEL | | |
| 2-methylpropan-1-ol CAS: 78-83-1 | PEL | 50 ppm | 150 mg/m ³ |
| | STEL | | |
| Xylene CAS: 1330-20-7 | PEL | 100 ppm | 435 mg/m ³ |
| | STEL | 150 ppm | 655 mg/m ³ |
| butan-1-ol CAS: 71-36-3 | PEL | 50 ppm | 150 mg/m ³ |
| | STEL | 50 ppm | 150 mg/m ³ |
| m-xylene CAS: 108-38-3 | PEL | 100 ppm | 435 mg/m ³ |
| | STEL | 150 ppm | 655 mg/m ³ |
| Ethylbenzene CAS: 100-41-4 | PEL | 5 ppm | 22 mg/m ³ |
| | STEL | 30 ppm | 130 mg/m ³ |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.2 Appropriate engineering controls:


A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection


| Pictogram | PPE | Remarks |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Mandatory respiratory tract protection | Filter mask for gases, vapours and particles | Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR). |

C.- Specific protection for the hands



| Pictogram | PPE | Remarks |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Mandatory hand protection | Protective gloves against minor risks | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR) |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



D.- Ocular and facial protection

| Pictogram | PPE | Remarks |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Mandatory face protection | Panoramic glasses against splash/projections. | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR) |

E.- Bodily protection

| Pictogram | PPE | Remarks |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Mandatory complete body protection | Antistatic and fireproof protective clothing | Limited protection against flames. |
|  Mandatory foot protection | Safety footwear with antistatic and heat resistant properties | Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer's use limitations and OSHA standard 1910.136 (29CFR) |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|------------------|
| Physical state at 68 °F: | Liquid |
| Appearance: | Characteristic |
| Color: | ■ Black |
| Odor: | Not available |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|----------------------------------------|-----------------------|
| Boiling point at atmospheric pressure: | 116 - 4078 °F |
| Vapour pressure at 68 °F: | 1126 Pa |
| Vapour pressure at 122 °F: | 6508.13 Pa (6.51 kPa) |
| Evaporation rate at 68 °F: | Non-applicable * |

Product description:

| | |
|----------------------------------------------|--------------------------|
| Density at 68 °F: | 1541.4 kg/m ³ |
| Relative density at 68 °F: | 1.541 |
| Dynamic viscosity at 68 °F: | Non-applicable * |
| Kinematic viscosity at 68 °F: | Non-applicable * |
| Kinematic viscosity at 104 °F: | Non-applicable * |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 68 °F: | Non-applicable * |
| Partition coefficient n-octanol/water 68 °F: | Non-applicable * |
| Solubility in water at 68 °F: | |
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |

Flammability:

| | |
|----------------------------|------------------|
| Flash Point: | 80 °F |
| Heat of combustion: | Non-applicable * |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 460 °F |
| Lower flammability limit: | Not available |
| Upper flammability limit: | Not available |

Explosive:

| | |
|------------------------|------------------|
| Lower explosive limit: | Non-applicable * |
| Upper explosive limit: | Non-applicable * |

9.2 Other information:

| | |
|---------------------------|------------------|
| Surface tension at 68 °F: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. For more information see section 3.
IARC: Xylene (3); Ziram (ISO) (3); m-xylene (3); Ethylbenzene (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Based on available data, the classification criteria are not met. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|-------------------------------------|----------------|-----------------------|--------|
| | LD50 | LC50 | |
| Xylene CAS: 1330-20-7 | oral | 2100 mg/kg | Rat |
| | dermal | 1100 mg/kg | Rat |
| | inhalation | 11 mg/L (4 h) (ATEi) | |
| 2-methylpropan-1-ol CAS: 78-83-1 | oral | 3350 mg/kg | Rat |
| | dermal | 2460 mg/kg | Rabbit |
| | inhalation | 24.6 mg/L (4 h) | Rat |
| butan-1-ol CAS: 71-36-3 | oral | 500 mg/kg (ATEi) | |
| | dermal | 3400 mg/kg | Rabbit |
| | inhalation | 24.66 mg/L (4 h) | Rat |
| m-xylene CAS: 108-38-3 | oral | 1590 mg/kg | Mouse |
| | dermal | 1100 mg/kg (ATEi) | |
| | inhalation | 11 mg/L (4 h) (ATEi) | |
| Rosin CAS: 8050-09-7 | oral | 4100 mg/kg | Rat |
| | dermal | Non-applicable | |
| | inhalation | Non-applicable | |
| Dicopper oxide CAS: 1317-39-1 | oral | 1340 mg/kg | Rat |
| | dermal | Non-applicable | |
| | inhalation | 11 mg/L (4 h) (ATEi) | |
| Ziram (ISO) CAS: 137-30-4 | oral | 500 mg/kg | Rat |
| | dermal | Non-applicable | |
| | inhalation | 0.5 mg/L (4 h) (ATEi) | |
| Ethylbenzene CAS: 100-41-4 | oral | 3500 mg/kg | Rat |
| | dermal | 15354 mg/kg | Rabbit |
| | inhalation | 17.2 mg/L (4 h) | Rat |

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Ecotoxicity (aquatic and terrestrial, where available):

| Identification | Acute toxicity | | Species | Genus |
|-------------------------------------|----------------|-------------------|---------------------------|------------|
| | LC50 | EC50 | | |
| Rosin CAS: 8050-09-7 | LC50 | 150 mg/L (96 h) | Brachydanio rerio | Fish |
| | EC50 | 238 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 185 mg/L (72 h) | Selenastrum capricornutum | Algae |
| Dicopper oxide CAS: 1317-39-1 | LC50 | 0.8 mg/L (96 h) | Cyprinus carpio | Fish |
| | EC50 | 0.117 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | Non-applicable | | |
| 2-methylpropan-1-ol CAS: 78-83-1 | LC50 | 2030 mg/L (96 h) | Carassius auratus | Fish |
| | EC50 | 1439 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1250 mg/L (48 h) | Scenedesmus subspicatus | Algae |

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SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Acute toxicity | | Species | Genus |
|-------------------------------|----------------|-------------------|-------------------------|------------|
| Ziram (ISO) CAS: 137-30-4 | LC50 | 0.01 mg/L (96 h) | Lepomis macrochirus | Fish |
| | EC50 | 0.048 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | Non-applicable | | |
| butan-1-ol CAS: 71-36-3 | LC50 | 1740 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 1983 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 500 mg/L (96 h) | Scenedesmus subspicatus | Algae |
| m-xylene CAS: 108-38-3 | LC50 | 16 mg/L (96 h) | Carassius auratus | Fish |
| | EC50 | 9.56 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | Non-applicable | | |
| Ethylbenzene CAS: 100-41-4 | LC50 | 42.3 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 75 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 63 mg/L (3 h) | Chlorella vulgaris | Algae |

12.2 Persistence and degradability:

| Identification | Degradability | | Biodegradability | |
|-------------------------------------|---------------|----------------|------------------|----------------|
| | | | | |
| Rosin CAS: 8050-09-7 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 32 % |
| 2-methylpropan-1-ol CAS: 78-83-1 | BOD5 | 0.4 g O2/g | Concentration | 100 mg/L |
| | COD | 2.41 g O2/g | Period | 14 days |
| | BOD5/COD | 0.17 | % Biodegradable | 90 % |
| Xylene CAS: 1330-20-7 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 88 % |
| butan-1-ol CAS: 71-36-3 | BOD5 | 1.71 g O2/g | Concentration | Non-applicable |
| | COD | 2.46 g O2/g | Period | 19 days |
| | BOD5/COD | 0.7 | % Biodegradable | 98 % |
| Ethylbenzene CAS: 100-41-4 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 14 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 90 % |

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|-------------------------------------|---------------------------|------|
| | | |
| 2-methylpropan-1-ol CAS: 78-83-1 | BCF | 3 |
| | Pow Log | 0.76 |
| | Potential | Low |
| Xylene CAS: 1330-20-7 | BCF | 9 |
| | Pow Log | 2.77 |
| | Potential | Low |
| Ziram (ISO) CAS: 137-30-4 | BCF | 470 |
| | Pow Log | 1.23 |
| | Potential | High |
| butan-1-ol CAS: 71-36-3 | BCF | 1 |
| | Pow Log | 0.88 |
| | Potential | Low |
| m-xylene CAS: 108-38-3 | BCF | 15 |
| | Pow Log | 3.2 |
| | Potential | Low |
| Ethylbenzene CAS: 100-41-4 | BCF | 1 |
| | Pow Log | 3.15 |
| | Potential | Low |

12.4 Mobility in soil:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Absorption/desorption | | Volatility | |
|-------------------------------------|-----------------------|----------------------|------------|---------------------------------|
| 2-methylpropan-1-ol CAS: 78-83-1 | Koc | Non-applicable | Henry | Non-applicable |
| | Conclusion | Non-applicable | Dry soil | Non-applicable |
| | Surface tension | 2.378E-2 N/m (77 °F) | Moist soil | Non-applicable |
| Xylene CAS: 1330-20-7 | Koc | 202 | Henry | 524.86 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | Non-applicable | Moist soil | Yes |
| Ziram (ISO) CAS: 137-30-4 | Koc | Non-applicable | Henry | 6.282E-5 Pa·m ³ /mol |
| | Conclusion | Non-applicable | Dry soil | No |
| | Surface tension | Non-applicable | Moist soil | No |
| butan-1-ol CAS: 71-36-3 | Koc | 2.44 | Henry | 5.39E-2 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | Yes |
| | Surface tension | 2.567E-2 N/m (77 °F) | Moist soil | Yes |
| m-xylene CAS: 108-38-3 | Koc | 182 | Henry | 790.34 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | 2.826E-2 N/m (77 °F) | Moist soil | Yes |
| Ethylbenzene CAS: 100-41-4 | Koc | 520 | Henry | 798.44 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | 2.859E-2 N/m (77 °F) | Moist soil | Yes |

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



14.1 UN number: UN1263

14.2 UN proper shipping name: PAINT

14.3 Transport hazard class(es): 3

Labels: 3

14.4 Packing group, if applicable: III

14.5 Marine pollutant: Yes

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Under 49 CFR 171.4, Except when transporting aboard a vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars, and aircraft

14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Non-applicable

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SECTION 14: TRANSPORT INFORMATION (continued)

Transport of dangerous goods by sea:

With regard to IMDG 39-18:



| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 14.1 UN number: | UN1263 |
| 14.2 UN proper shipping name: | PAINT |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group, if applicable: | III |
| 14.5 Marine pollutant: | Yes |
| 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| Special regulations: | 223, 955, 163, 367 |
| EmS Codes: | F-E, S-E |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | 5 L |
| Segregation group: | Non-applicable |
| 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2021:



| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 14.1 UN number: | UN1263 |
| 14.2 UN proper shipping name: | PAINT |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group, if applicable: | III |
| 14.5 Marine pollutant: | Yes |
| 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | Non-applicable |

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

SARA Title III - Toxic Chemical Release Inventory Reporting (Section 313): Xylene ; butan-1-ol ; m-xylene ; Ethylbenzene
 California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Ethylbenzene
 The Toxic Substances Control Act (TSCA) : Rosin ; Dicopper oxide ; 2-methylpropan-1-ol ; Xylene ; Ziram (ISO) ; butan-1-ol ; m-xylene ; N-ethyltoluene-4-sulphonamide ; Ethylbenzene
 Massachusetts RTK - Substance List: Dicopper oxide ; 2-methylpropan-1-ol ; Xylene ; Ziram (ISO) ; butan-1-ol ; m-xylene ; Ethylbenzene
 New Jersey Worker and Community Right-to-Know Act: Dicopper oxide ; 2-methylpropan-1-ol ; Xylene ; Ziram (ISO) ; butan-1-ol ; m-xylene ; Ethylbenzene
 New York RTK - Substance list: Dicopper oxide ; 2-methylpropan-1-ol ; Xylene ; butan-1-ol ; m-xylene ; Ethylbenzene
 Pennsylvania Worker and Community Right-to-Know Law: Dicopper oxide ; 2-methylpropan-1-ol ; Xylene ; butan-1-ol ; m-xylene ; Ethylbenzene
 CANADA-Domestic Substances List (DSL): Rosin ; Dicopper oxide ; 2-methylpropan-1-ol ; Xylene ; Ziram (ISO) ; butan-1-ol ; m-xylene ; N-ethyltoluene-4-sulphonamide ; Ethylbenzene
 CANADA-Non-Domestic Substances List (NDSL): Non-applicable
 NTP (National Toxicology Program): Non-applicable
 Minnesota - Hazardous substances ERTK: Rosin ; 2-methylpropan-1-ol ; Xylene ; butan-1-ol ; m-xylene ; Ethylbenzene
 Rhode Island - Hazardous substances RTK: 2-methylpropan-1-ol ; Xylene ; butan-1-ol ; m-xylene ; Ethylbenzene
 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
 Hazardous Air Pollutants (Clean Air Act): Xylene ; m-xylene ; Ethylbenzene
 Hazardous substances release notification under CERCLA sections 102-103 (40 CFR Part 302): 2-methylpropan-1-ol (5000 pounds) ; Xylene (100 pounds) ; Ziram (ISO) (10 pounds) ; butan-1-ol (5000 pounds) ; m-xylene (1000 pounds) ; Ethylbenzene (1000 pounds)

Specific provisions in terms of protecting people or the environment:

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SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H332: Harmful if inhaled.
H312: Harmful in contact with skin.
H319: Causes serious eye irritation.
H226: Flammable liquid and vapour.
H315: Causes skin irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.
Acute Tox. 4: H332 - Harmful if inhaled.
Eye Irrit. 2A: H319 - Causes serious eye irritation.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

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END OF SAFETY DATA SHEET