

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/ DETAILS OF CHEMICAL PRODUCTS
of the European Parliament and Council Regulation (EC) No. 453/2010 of 20.05.2010.
and No. 1907/2006 of 18.12.2006

Date of issue: 13.09.2013.

WOOD PROTECTION PRESERVATIVE „INWOOD FIRE C”

Version Nr. 1.0

Printing date:4/15/2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Substance name : **Fire retardant for wood „Inwood Fire C”**

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

Uses of the substance : Flame retardant used in new and reconstructed structures, indoor - lumber (laths, boards, rafters, beams, etc.) processing, which provides hard combustible or flammable hard wood sourcing. Flame retardant used for wood preventive fireproof protective treatment enclosed building structures that are not directly exposed to precipitation (indoor).

Use according to user manual.

1.3. Details of the supplier of the safety data sheet:

1.3.1 Manufacturer/supplier Ltd Vincents Polyline

1.3.2 Company registration number 40003358071

1.3.3 Address: Cirulu street 29, Kalngale, Carnikavas region., LV-2163

Telephone number: +371-67903272

Fax : +371-67903370

e-mail : polyline@polyline.vincents.lv

1.3.4 **Emergency telephone number** Ambulance: 03 or 113
Rescue service: 112
Toxicology centre:
+371-67042468,
+371-67042468 (24h)

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2. HAZARDS IDENTIFICATION

2.1. **Classification of the mixture according to the Regulation (EC) No 1272/2008 [CLP]:**
Classification according to Directives 67/548/EEC and 1999/45/EC:

*Skin Corr.*1B; H314
Corr. met. 1; H290
STOT SE kat. 3; H335

C - corrosive, Xn – harmful
R22, R34, R37/38, R41

S1/2, S13, S20/S21, S24/S25, S26, S27/28, S36/37/38, S45

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms :



Signal word :

Danger

Hazard statements :

H314 Causes severe skin burns and eye damage
H290 May be corrosive to metals
H335 May cause respiratory irritation

Precautionary statements :

Prophylaxis:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection

Reaction:

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do Not induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep 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.

P310 Immediately call a POISON CENTER or doctor/physician

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

Storage:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose a content/containers according to chemical disposal regulations.

2.3. Other hazards:

2.4. Active substances:

2.5. Biocīda inventarizācijas No:

2.6. Further information:

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization : Mixture

3.1. Hazardous ingredients:

| Component | CAS - No/ EC No/ REACH registration number | Classification (67/548/EEC and 1999/45/EC) | Classification (Regulation (EC) No 1272/2008) | Weight content [%] |
|--|---|---|---|--------------------------|
| Borax; dinatrium tetraborate decahydrate (Na ₂ B ₄ O ₇ ·10 H ₂ O) | 1303-96-4/ 215-540-4/ 05- 2117218272- 54-0000 | Repr. Cat. 2; T -toxic R60-61 |  Danger Repr. 1B; H360FD | ≤ 5,00 |
| Potassium hydroxide (KOH) | 1310-58-3/ 215-181-3 | Xn - harmful; R22 C – corrosive; R35 | <i>Acute Tox. 4; H302 Skin Corr. 1A; H314 Corr metal 1; H290 STOT SE kat. 3; H335</i>  Danger | ≤ 2,00 |

4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

Inhalation

Supply fresh air; if not breathing give artificial respiration; consult doctor in case of complaints.

Skin contact

Immediately remove contaminated clothing and shoes, wash skin with plenty of water. Consult a physician.

Eye contact

Immediately rinse opened eyes for 15 minutes under running water. Remove contact lenses. Protect the other eye. Consult a physician.

Ingestion

If conscious, wash the mouth out with plenty of water. If conscious, give plenty of water to drink immediately. Drink milk and activated carbon. If unconscious, do not give anything, wait for medical help. Immediately call for a medical help.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms : No data available

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

Treatment : *Treat symptomatically*

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Powder, foam, carbon dioxide, water spray. Do not use water with full jet. Water spray may be used for cooling the hot containers.

5.2. Special hazards arising from the substance or mixture

Special hazards during fire: The mixture does not burn, is not flammable and not explosive. Burning or heat can be released irritating and toxic gases - boron and sodium oxides.

5.3. Advice for firefighters

Special protective materials: For firefighters safety must wear a breathing apparatus with full pressure, full face shield and independent air supply. To fight the fire, must use all personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions:

Wear appropriate personal protective equipment as specified in section 8.3. Provide appropriate exhaust - supply ventilation.

6.2. Environmental precautions:

The product is not classified as dangerous for the environment. Avoid discharge into sewers, water systems, soil, if the product is exposed to water systems, refer to the appropriate bodies.

6.3. Methods and materials for containment and cleaning up

Pick up the spill with dry sand and in case of large spill pour the product in an appropriate containers. Wash off with water the affected area and waste water collect with dry sand.

6.4. Reference to other sections

For personal precautions see section 8.
For substance and package disposal information see section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Protective measures : For information about hygiene measures for Personnel individual protection, refer to section 8.

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Apply in well-ventilated areas. Do not breathe vapors. In areas where spills may occur, hand and an eye wash should be provided. Before breaks and at end of work wash your hands.
Do not drink, eat and smoke when using.

Measures to prevent fire and explosion : The mixture does not burn, is not flammable and not explosive. But burning or heat can be released irritating and toxic gases - boron and sodium oxides.

7.2. Conditions for safe storage, including any incompatibilities Store in dry, dark, well-ventilated, fireproof place. Keep substance in the original container tightly closed in temperature from +5 to +30°C.

7.3. Specific end use(s) Not applicable

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters Containing substances with occupational exposure limit values: (Potassium Hydroxide: WEL - 2 mg / m³)

8.2. Exposure controls No data available for mixture (water solution)

8.3. Personal protective equipment:

- respiratory** Full-type respirator should be used in cases of spray mixture, or using a mixture of poorly ventilated spaces.
- hands** Wear gloves, for example, nitrile gloves.
- eyes** Tightly fitting safety glasses with side shields; facial mask - according to NIOSH (AS) or EN 374th
- skin and body** Working protective clothing and rubber boots can be used.
- hygiene measures** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin and eyes. Do not eat, drink or smoke while working. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|----------------|-------------------|
| Appearance | Liquid |
| Colour | Yellowish |
| Odour | Odourless |
| Odour treshold | No data available |

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| | |
|---|----------------------------------|
| pH | ~ 14 |
| Melting point/range | Not applicable |
| Boiling point/range | No data available |
| Flash point | Not classified |
| Flammability (solid, gas) | Not applicable |
| Relative vapour density | No data available |
| Density | ≤ 1,400 g/m ³ (20 °C) |
| Solubility in water | Soluble |
| Solubility in other solvents | No data available |
| Partition coefficient: n-octanol/water | Not applicable |
| Auto-ignition temperature | Decompose when heated |
| Thermal decomposition | No data available |
| Explosivity | Not explosive |
| Oxidizing properties | No data available |

9.2. Further information

| | |
|----------------------------------|----------------|
| Explosive pressure upper limit : | Not applicable |
| : | |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| 10.1. Reactivity | No threat. |
| 10.2. Chemical stability | Stable under the recommended handling and storage conditions. |
| 10.3. Possibility of hazardous reactions | Reaction with acids |
| 10.4. Conditions to avoid | Heating |
| 10.5. Incompatible materials | Exothermic reaction with strong acids |
| 10.6. Hazardous decomposition products | In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides. |

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11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| 11.1. Information on toxicological effects | Borax CAS No 1303-96-4 |
| Acute toxicity (oral) | LD50/rat : = 4500 – 5000 mg/kg 5-10 g for people can cause vomiting, diarrhea, shock and even death. |
| | Pottasium hydroxide CAS No 1310-58-3 |
| | LD50/rat : = 338 mg/kg 50 g of substance can cause death for people.. |
| Acute dermal toxicity | Borax CAS No 1303-96-4 LD50/rabbit : > 10000 mg/kg |
| Skin corrosion / irritation | Mixture can cause skin irritation |
| Serious eye damage / eye irritation | Mixture can cause eye irritation |
| Respiratory or skin sensitization | The mixture is not sensitizing |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity | There is no evidence of genotoxicity. |
| Carcinogenicity | There is no evidence of carcinogenicity. |
| Teratogenicity | There is no evidence of teratogenicity. |
| STOT - single exposure | The mixture can be regarded as toxic after a single exposure to the substance of the airways |
| Inhalation | After a single exposure to toxic exposure (3.kat.) And target organ (respiratory). May cause respiratory irritation - Inhalation coughing, tearing and salivation, difficulty in breathing. |
| Substance exposure in humans: skin contact | Skin contact causes irritation, redness and swelling of the skin, depending on the duration of exposure, dermatitis |
| Product Exposition in humans: ingestion | Mixture ingestion causes pain in the throat, stomach, nausea, vomiting, and stomach - intestinal mucous membrane burns. |
| Product Exposition in humans: eye contact | Eye contact may cause irritation to mucous membranes, eye tearing, burns to the eye tissue damage |

12. EKOLOGICAL INFORMATION

| | |
|--|--|
| 12.1. Toxicity | |
| Water environmental toxicity | Non-toxic (calculation method) The mixture of its alkalinity, may raise the pH. |
| 12.2. Persistence and degradability | |
| Biodegradability | Borax decomposes to the natural environment existing borates. Borates as well as other inorganic substances biodegrade. |

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12.3. Bioaccumulative potencial

No data available

12.4. Mobility in soil Distribution among environmental compartments

The mixture soluble in water. Boron is an essential trace element for plant with total concentration - 10 mg B / kg in the earth's crust. However, the increased amount of boron can be harmful to plants. Boron can get into ground and surface waters through atmospheric processes and to a much lesser extent, from anthropogenic sources.

12.5. Results of PBT and vPvB assessment

This mixture is not considered to be persistent, bioaccumulative and toxic (PBT).
This mixture is not considered to be very persistent, very bioaccumulative (vPvB).

12.6. Other adverse effects and information

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Product

Avoid flooding the mixture drains. Eliminate or wherever possible, to reduce waste generation. Empty containers or liners may retain some product residues. This material and its container must be disposed in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal services. The disposal of the product must comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Package

May be reused Uncontaminated empty containers or drums. Packages that cannot be cleaned, the contaminated packages in the same manner as the product. Completely empty the small packs may be disposed of as household waste.

14. TRANSPORT INFORMATION

14.1. UN Number

ADR
RID
IMDG
IATA

No hazardous materials
No hazardous materials
No hazardous materials
No hazardous materials

14.2. UN proper shipping name

14.3. Transport hazard class(es)

ADR
RID

No hazardous materials
No hazardous materials

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| | |
|-------------|------------------------|
| IMDG | No hazardous materials |
| IATA | No hazardous materials |

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user Not classified as hazardous

14.7. Transport in bulk according to Annex II of II MARPOL 73/78 and the IBC code Not applicable

15. REGULATORY INFORMATION

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

The safety data sheet developed in accordance with Commission Regulation regulations/legislation specific (EC) No. 453/2010 amending Regulation (EC) No. 1907/2006. Labeling and for the mixture classification developed in accordance with EC Directives (67/548 / EEC and 1999/45 / EC) and the Cabinet Regulation No. 107 (12.3.2002) and Regulation (EC) No. 1272/2008 (16.12.2008.) Of substances and mixtures classification, labeling and packaging, amending and repealing Directive 67/548 / EEC and 1999/45 / EC and Regulation (EC) No, 1907/2006.

Latvian hazardous waste management is carried out according to 28.10.2010. Law "Waste Management Law" and 16.12.2010. Law "On Amendments to the Law on Waste Management", Cabinet Regulation No. 484 (21.06.2011.) "Hazardous waste tracking, identification, storage, packaging, labeling and shipping procedures for accounting" and Cabinet Regulation No, 302 (19.04.2011.) "Regulations on waste classification and characteristics making waste hazardous."

Transport information developed under the United Nations European Agreement on Dangerous Goods by Road Transport, applicable from 01.01.2011., Under the Convention on International Carriage by Rail Appendix B to Annex 1 (effective from 01.01.2011).

Gathering information, taken into account the Cabinet of Ministers Regulations No. 325 (15.05.2007.) Occupational health and safety requirements for exposure to chemicals in the workplace, Regulation (EC) No. 2009/161 establishing a workplace exposure limit levels indicative list of the third and amending Commission Directive 2000/39 / EC Council Directive 98/24 / EC (7 April 1998) "on workers' health and safety protection against risks related to chemical agents at work.", Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Regulation (EC) No. 850/2004 "on Persistent Organic Pollutants", amending Directive 79/117 / EEC.

15.2. Chemical safety assessment

Safety Assessment applicable if available.

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16. OTHER INFORMATIONS

16.1. Citur neprecizēta vielas bīstamība.

Risk phrases (R-phrases) (see section 2 and 3)

- R 22 Harmful if swallowed
- R34 Cause burns
- R 35 Causes severe burns
- R37/38 Irritating to respiratory system and skin
- R 36/37/38 Irritating to eyes, respiratory system and skin
- R41 Risk of serious damage to eyes
- R 60 May impair fertility
- R 61 May cause harm to the unborn child

- S1/2 Keep locked up and out of the reach of children
- S20/S21 When using do not eat, drink and smoke
- S24/S25 Avoid contact with skin and eyes
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S28 After contact with skin, wash immediately with plenty of water
- S36/37/39 Wear suitable protective clothing, suitable gloves, eye/face protection
- S45 In case of accident or if you feel unwell seek medical advice immediately

16.2. Hazard statements (see section 3)

- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H302 Harmful if swallowed
- H360FD May damage fertility. May damage the unborn child

Abbreviations: 67/548 / EEC = Dangerous Substances Directive. 1999/45 / EC = Dangerous Preparations Directive. EC Regulation No 1272/2008 = Regulation for substances and mixtures classification, labeling and packaging. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Goods Code. RID = contract for the transport of dangerous goods by rail. ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road. TWA = time-weighted average. STEL = Short term exposure limit. AER + Occupational exposure limit value 8.st .; LC50 - median lethal koncentrācija; LD 50 - The average lethal dose; EC50 - effective trough; N.p.d. - No data are available; vPvB - very persistent and very bioaccumulative chemicals; PBT-persistent, bioaccumulative, toxic chemicals.

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.