**Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe**

**SAFETY DATA SHEET**

Heavy Duty Blue Vulcanizing Fluid



**SECTION 1: Identification of the substance/mixture and of the company/ undertaking**

**1.1 Product identifier**

**Product name** **:** Heavy Duty Blue Vulcanizing Fluid

**Product code** **:** 101020

**Product description** **:** adhesive

**Product type** **:** Liquid.

**Other means of** **:** Not available.

**identification**

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

Not applicable.

1. **Details of the supplier of the safety data sheet**

**Distributor** **:** Auto4 Ltd, Unit 4a Park Lane Business Park, Park Lane, Kirkby in Ashfield

Nottinghamshire, NG17 9GU

**Manufacturer** **:** Tech International, 200 East Coshocton Street, Johnstown, Ohio 43031,

740-967-9015



**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture Product definition :** Mixture

**Classification according to Directive 1999/45/EC [DPD]**

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** **:** F; R11

R42

N; R51/53

**Physical/chemical hazards :** Highly flammable.

**Human health hazards :** May cause sensitization by inhalation.

**Environmental hazards :** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.



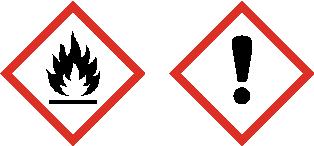
***Heavy Duty Blue Vulcanizing Fluid***



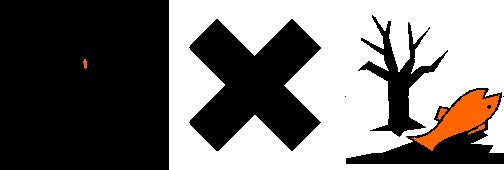
**SECTION 2: Hazards identification**

1. **Label elements** 
   1. **Label elements**

**Hazard pictograms** **:**



|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Signal word** | **:** Danger | | | | | | | |  |
| **Hazard statements** | **:** Highly flammable liquid and vapor. | | | | | | | |  |
|  | Harmful if inhaled. | | | | | | | |  |
|  | Harmful to aquatic life with long lasting effects. | | | | | | | |  |
| **Precautionary statements** |  |  |  |  |  |  |  |  |  |
| **General** | **:** Not applicable. | | | | | | | |  |
| **Prevention** | **:** Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, | | | | | | | |  |
|  | open flames and hot surfaces. - No smoking. Avoid release to the environment. | | | | | | | |  |
| **Response** | **:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable | | | | | | | |  |
|  | for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. | | | | | | | |  |
|  | Rinse skin with water or shower. | | | | | | | |  |
| **Storage** | **:** Keep cool. | | | | | | | |  |
| **Disposal** | **:** Dispose of contents and container in accordance with all local, regional, national and | | | | | | | |  |
|  | international regulations. | | | | | | | |  |
| **2.2.2 Label elements** |  |  |  |  |  |  |  |  |  |
| **Hazard symbol or symbols** | **:** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |



**Indication of danger** **:** Highly flammable, Harmful, Dangerous for the environment

**Risk phrases** **:** R11- Highly flammable.

R42- May cause sensitization by inhalation.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

**Safety phrases** **:** S23- Do not breathe [\*\*\*].

S45- In case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible).

S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

**Hazardous ingredients :** Rubber, natural

**Supplemental label** **:** Not applicable.

**elements**

**Special packaging requirements**

**Containers to be fitted :** Not applicable.

**with child-resistant**

**fastenings**

**Tactile warning of danger :** Not applicable.



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**SECTION 3: Composition/information on ingredients**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Substance/mixture** | **:** Mixture |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  | **Classification** | |  |
| **Product/ingredient** | **Identifiers** | **%** | **67/548/EEC** | **Regulation (EC) No.** | **Type** |
| **name** |  |  |  | **1272/2008 [CLP]** |  |
|  |  |  |  |  |  |
| Solvent naphtha | REACH #: | >=75, | Xn; R65 | Flam. Liq. 2, H225 | [1] [2] |
| (petroleum), light aliph. | 01-2119471306-40 | <90 |  | Acute Tox. 4, H332 |  |
|  | EC: 265-192-2 |  |  | Asp. Tox. 1, H304 |  |
|  | CAS: 64742-89-8 |  |  |  |  |
|  | Index: 649-267-00-0 |  |  |  |  |
| Rubber, natural | EC: 232-689-0 | >=1, | R42 | Not classified. | [1] [2] |
|  | CAS: 9003-31-0 | <25 | R53 |  |  |
| zinc oxide | EC: 215-222-5 | >=0.25, | N; R50/53 | Eye Irrit. 2, H319 | [1] [2] |
|  | CAS: 1314-13-2 | <2.5 |  | Aquatic Acute 1, H400 |  |
|  | Index: 030-013-00-7 |  |  | Aquatic Chronic 1, H410 |  |
|  |  |  | **See Section 16 for** | **See Section 16 for the** |  |
|  |  |  | **the full text of the R-** | **full text of the H** |  |
|  |  |  | **phrases declared** | **statements declared** |  |
|  |  |  | **above.** | **above.** |  |
|  |  |  |  |  |  |



There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

1. Substance classified with a health or environmental hazard
2. Substance with a workplace exposure limit
3. Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
4. Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
5. Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

According to Note P of the European Directive 67/548/CEE, the substance "naphta (oil)" should not be classified as a "carcinogenic" ingredient, because the benzene content (number EINECS 200-753-7) is lower than 0.1% in weight.



**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**Eye contact :** Immediately flush eyes with plenty of water, occasionally lifting the upper and lowereyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

|  |  |  |
| --- | --- | --- |
| **Inhalation** | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If | |
|  | it is suspected that fumes are still present, the rescuer should wear an appropriate | |
|  | mask or self-contained breathing apparatus. If not breathing, if breathing is irregular | |
|  | or if respiratory arrest occurs, provide artificial respiration or oxygen by trained |  |
|  | personnel. It may be dangerous to the person providing aid to give mouth-to-mouth | |
|  | resuscitation. Get medical attention. If unconscious, place in recovery position and | |
|  | get medical attention immediately. Maintain an open airway. Loosen tight clothing | |
|  | such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, | |
|  | avoid further exposure. |  |
| **Skin contact** | **:** Flush contaminated skin with plenty of water. Remove contaminated clothing and | |
|  | shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms | |
|  | occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |  |
|  |  |  |
| **Date of issue/Date of revision** | **:** 2/10/2014. | ***3/14*** |
|  |  |  |

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**SECTION 4: First aid measures**

**Ingestion** **:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Stop if

the exposed person feels sick as vomiting may be dangerous. Do not induce

vomiting unless directed to do so by medical personnel. If vomiting occurs, the head

should be kept low so that vomit does not enter the lungs. Get medical attention if

adverse health effects persist or are severe. Never give anything by mouth to an

unconscious person. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway. Loosen tight clothing such as a

collar, tie, belt or waistband.

**Protection of first-aiders :** No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask

or self-contained breathing apparatus. It may be dangerous to the person providing

aid to give mouth-to-mouth resuscitation.

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

**Potential acute health effects**

**Eye contact** **:** May cause eye irritation.

**Inhalation** **:** May cause sensitization by inhalation.

**Skin contact** **:** May cause skin irritation.

**Ingestion** **:** No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact** **:** No specific data.

**Inhalation** **:** Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

**Skin contact** **:** No specific data.

**Ingestion** **:** No specific data.

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

**Notes to physician** **:** Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** **:** No specific treatment.



**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing :** Use dry chemical,CO₂,water spray (fog) or foam.

**media**

**Unsuitable extinguishing :** Do not use water jet.

**media**

**5.2 Special hazards arising from the substance or mixture**

**Hazards from the** **:** Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the

**substance or mixture** container may burst, with the risk of a subsequent explosion. The vapor/gas is

heavier than air and will spread along the ground. Vapors may accumulate in low or

confined areas or travel a considerable distance to a source of ignition and flash back.

Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal** **:** Decomposition products may include the following materials:

**decomposition products** metal oxide/oxides



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**SECTION 5: Firefighting measures**

**5.3 Advice for firefighters**

**Special protective actions :** Promptly isolate the scene by removing all persons from the vicinity of the incident if

**for fire-fighters** there is a fire. No action shall be taken involving any personal risk or without suitable

training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool. This material is toxic to aquatic

organisms. Fire water contaminated with this material must be contained and

prevented from being discharged to any waterway, sewer or drain.

**Special protective** **:** Fire-fighters should wear appropriate protective equipment and self-contained

**equipment for fire-fighters** breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode. Clothing for fire-fighters (including helmets, protective boots and gloves)

conforming to European standard EN 469 will provide a basic level of protection for

chemical incidents.



**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency** **:** No action shall be taken involving any personal risk or without suitable training.

**personnel** Evacuate surrounding areas. Keep unnecessary and unprotected personnel from

entering. Do not touch or walk through spilled material. Shut off all ignition sources.

No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide

adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Put on appropriate personal protective equipment.

**For emergency responders :** If specialised clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also Section 8 for

additional information on hygiene measures.

**6.2 Environmental** **:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

**precautions** and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air). Water polluting material. May be harmful

to the environment if released in large quantities.

**6.3 Methods and materials for containment and cleaning up**

**Small spill :** Stop leak if without risk. Move containers from spill area. Use spark-proof tools andexplosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** **:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and

explosion-proof equipment. Approach release from upwind. Prevent entry into

sewers, water courses, basements or confined areas. Wash spillages into an

effluent treatment plant or proceed as follows. Contain and collect spillage with non-

combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth

and place in container for disposal according to local regulations. Dispose of via a

licensed waste disposal contractor. Contaminated absorbent material may pose the

same hazard as the spilled product.

**6.4 Reference to other** **:** See Section 1 for emergency contact information.

**sections** See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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**SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**7.1 Precautions for safe handling**

**Protective measures** **:** Put on appropriate personal protective equipment (see Section 8). Persons with a

history of asthma, allergies or chronic or recurrent respiratory disease should not be

employed in any process in which this product is used. Do not get in eyes or on skin

or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate

ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter

storage areas and confined spaces unless adequately ventilated. Keep in the

original container or an approved alternative made from a compatible material, kept

tightly closed when not in use. Store and use away from heat, sparks, open flame or

any other ignition source. Take precautionary measures against electrostatic

discharges. To avoid fire or explosion, dissipate static electricity during transfer by

grounding and bonding containers and equipment before transferring material.

Empty containers retain product residue and can be hazardous. Do not reuse

container.

**Advice on general** **:** Eating, drinking and smoking should be prohibited in areas where this material is

**occupational hygiene** handled, stored and processed. Workers should wash hands and face before eating,

drinking and smoking. Remove contaminated clothing and protective equipment

before entering eating areas. See also Section 8 for additional information on

hygiene measures.

**7.2 Conditions for safe :** Store in accordance with local regulations. Store in a segregated and approved area.

**storage, including any** Store in original container protected from direct sunlight in a dry, cool and well-

**incompatibilities** ventilated area, away from incompatible materials (see Section 10) and food and

drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep

container tightly closed and sealed until ready for use. Containers that have been

opened must be carefully resealed and kept upright to prevent leakage. Do not store

in unlabeled containers. Use appropriate containment to avoid environmental

contamination.

**7.3 Specific end use(s)**

**Recommendations** **:** Not available.

**Industrial sector specific :** Not available.

**solutions**



**SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**8.1 Control parameters Occupational exposure limits**

|  |  |
| --- | --- |
| **Product/ingredient name** | **Exposure limit values** |
|  |  |
| Solvent naphtha (petroleum), light aliph. | **ACGIH TLV (United States).** |
|  | TWA: 400 ppm |
| Rubber, natural | **ACGIH TLV (United States, 3/2012). Absorbed through skin.** |
|  | **Skin sensitizer.** |
|  | TWA: 0.0001 mg/m³, (Inhalable allergenic proteins) 8 hours. Form: |
|  | Inhalable fraction |
| zinc oxide | **ACGIH TLV (United States, 3/2012).** |
|  | TWA: 2 mg/m³ 8 hours. Form: Respirable fraction |
|  | STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction |
|  |  |

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**SECTION 8: Exposure controls/personal protection**

**Recommended monitoring :** If this product contains ingredients with exposure limits, personal, workplace

**procedures** atmosphere or biological monitoring may be required to determine the effectiveness

of the ventilation or other control measures and/or the necessity to use respiratory

protective equipment. Reference should be made to monitoring standards, such as

the following: European Standard EN 689 (Workplace atmospheres - Guidance for

the assessment of exposure by inhalation to chemical agents for comparison with

limit values and measurement strategy) European Standard EN 14042 (Workplace

atmospheres - Guide for the application and use of procedures for the assessment of

exposure to chemical and biological agents) European Standard EN 482

(Workplace atmospheres - General requirements for the performance of procedures

for the measurement of chemical agents) Reference to national guidance

documents for methods for the determination of hazardous substances will also be

required.

**Derived effect levels**

No DELs available.

**Predicted effect concentrations**

No PECs available.

**8.2 Exposure controls**

**Appropriate engineering :** Use only with adequate ventilation. Use process enclosures, local exhaust

**controls** ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits. The engineering controls

also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Use explosion-proof ventilation equipment.

**Individual protection measures**

**Hygiene measures :** Wash hands, forearms and face thoroughly after handling chemical products, beforeeating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** **:** Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists or

dusts. If contact is possible, the following protection should be worn, unless the

assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

**Hand protection** **:** Chemical-resistant, impervious gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk assessment indicates

this is necessary. Considering the parameters specified by the glove manufacturer,

check during use that the gloves are still retaining their protective properties. It

should be noted that the time to breakthrough for any glove material may be

different for different glove manufacturers. In the case of mixtures, consisting of

several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** **:** Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product. When there is a risk of ignition from static electricity,

wear anti-static protective clothing. For the greatest protection from static

discharges, clothing should include anti-static overalls, boots and gloves. Refer to

European Standard EN 1149 for further information on material and design

requirements and test methods.

**Other skin protection :** Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

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**SECTION 8: Exposure controls/personal protection**

**Respiratory protection :** Use a properly fitted, air-purifying or air-fed respirator complying with an approved

standard if a risk assessment indicates this is necessary. Respirator selection must

be based on known or anticipated exposure levels, the hazards of the product and

the safe working limits of the selected respirator.

**Environmental exposure :** Emissions from ventilation or work process equipment should be checked to ensure

**controls** they comply with the requirements of environmental protection legislation. In some

cases, fume scrubbers, filters or engineering modifications to the process equipment

will be necessary to reduce emissions to acceptable levels.



**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

|  |  |  |
| --- | --- | --- |
| **Appearance** |  |  |
| **Physical state** | **:** Liquid. | |
| **Color** | **:** Blue. [Light] | |
| **Odor** | **:** Solvent. [Strong] | |
| **Odor threshold** | **:** Not available. | |
| **pH** | **:** Not applicable. | |
| **Melting point/freezing point** | **:** | -45.556°C |
| **Initial boiling point and boiling** | **:** | 93.3 to 115.6°C |
| **range** |  |  |
| **Flash point** | **:** Closed cup: -7°C [Tagliabue.] | |
| **Evaporation rate** | **:** Not available. | |
| **Flammability (solid, gas)** | **:** | Not available. |
| **Burning time** | **:** Not applicable. | |
| **Burning rate** | **:** Not applicable. | |
| **Upper/lower flammability or** | **:** Lower: 1.3% | |
| **explosive limits** |  | Upper: 8% |
| **Vapor pressure** | **:** | 5.3 kPa [room temperature] |
| **Vapor density** | **:** >1 [Air = 1] | |
| **Relative density** | **:** | 0.79 |
| **Solubility(ies)** | **:** | Not available. |
| **Partition coefficient: n-octanol/** | **:** | Not available. |
| **water** |  |  |
| **Auto-ignition temperature** | **:** 280°C | |
| **Decomposition temperature** | **:** Not available. | |
| **Viscosity** | **:** | Dynamic (room temperature): 3500 mPa·s |
| **VOC content** | **:** | 5.29 lbs/gal (633.9 g/l) |
| **Explosive properties** | **:** | Not available. |
| **Oxidizing properties** | **:** | Not available. |

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**SECTION 10: Stability and reactivity**

|  |  |  |  |
| --- | --- | --- | --- |
| **10.1** | **Reactivity** | **:** No specific test data related to reactivity available for this product or its ingredients. | |
| **10.2** | **Chemical stability** | **:** The product is stable. | |
| **10.3** | **Possibility of** | **:** | Under normal conditions of storage and use, hazardous reactions will not occur. |
| **hazardous reactions** | |  |  |
| **10.4** | **Conditions to avoid** | **:** | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, |
|  |  |  | braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not |
|  |  |  | allow vapor to accumulate in low or confined areas. |
| **10.5** | **Incompatible materials** | **:** Highly reactive or incompatible with the following materials: | |
|  |  |  | oxidizing materials |
| **10.6** | **Hazardous** | **:** Under normal conditions of storage and use, hazardous decomposition products | |
| **decomposition products** | |  | should not be produced. |



**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects Acute toxicity**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Product/ingredient name** |  | **Result** |  | **Species** | |  |  | **Dose** |  |  | **Exposure** |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Solvent naphtha |  | LC50 Inhalation Gas. |  | Rat | |  | 3400 ppm | |  | 4 hours | |  |
|  |  | (petroleum), light aliph. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | LD50 Dermal |  | Rat | |  | >4000 mg/kg | |  | - |  |  |
|  |  |  |  | LD50 Oral |  | Rat | |  | >8000 mg/kg | |  | - |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **Conclusion/Summary** | **:** Not available. | |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | | | |  |
|  |  |  |  | **Route** |  |  |  |  |  | **ATE value** | | | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Irritation/Corrosion** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | |  | |  |  |  |
|  |  | **Product/ingredient name** |  | **Result** |  | **Species** | | **Score** | | **Exposure** | |  | **Observation** |  |
|  |  | |  | |  | |  |  |  |  | |  |  |  |
|  | zinc oxide | | Eyes - Mild irritant | | Rabbit | | | - |  | 24 hours 500 | |  | - |  |
|  |  |  |  |  |  |  |  |  |  | milligrams | |  |  |  |
|  |  |  | Skin - Mild irritant | | Rabbit | | | - |  | 24 hours 500 | |  | - |  |
|  |  |  |  |  |  |  |  |  |  | milligrams | |  |  |  |
|  |  | |  | |  |  |  |  |  |  |  |  |  |  |
|  | **Conclusion/Summary** | | **:** Not available. | |  |  |  |  |  |  |  |  |  |  |
|  | **Sensitization** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Conclusion/Summary** | | **:** Not available. | |  |  |  |  |  |  |  |  |  |  |
|  | **Mutagenicity** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Conclusion/Summary** | | **:** Not available. | |  |  |  |  |  |  |  |  |  |  |
|  | **Carcinogenicity** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Conclusion/Summary** | | **:** Not available. | |  |  |  |  |  |  |  |  |  |  |
|  | **Reproductive toxicity** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Conclusion/Summary** | | **:** Not available. | |  |  |  |  |  |  |  |  |  |  |
|  | **Teratogenicity** | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Conclusion/Summary** | | **:** Not available. | |  |  |  |  |  |  |  |  |  |  |
| **Information on the likely** | | | **:** Not available. | |  |  |  |  |  |  |  |  |  |  |
| **routes of exposure** | | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | |  | |  |  |  |  |  |  |  |  | |  |
| **Date of issue/Date of revision** | | | **:** 2/10/2014. | |  |  |  |  |  |  |  | ***9/14*** | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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**SECTION 11: Toxicological information**

|  |  |
| --- | --- |
| **Potential acute health effects** |  |
| **Eye contact** | **:** May cause eye irritation. |
| **Inhalation** | **:** May cause sensitization by inhalation. |
| **Skin contact** | **:** May cause skin irritation. |
| **Ingestion** | **:** No known significant effects or critical hazards. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | |
| **Eye contact** | **:** No specific data. |
| **Inhalation** | **:** Adverse symptoms may include the following: |
|  | wheezing and breathing difficulties |
|  | asthma |
| **Skin contact** | **:** No specific data. |
| **Ingestion** | **:** No specific data. |
| **Delayed and immediate effects and also chronic effects from short and long term exposure** | |
| **Short term exposure** |  |
| **Potential immediate** | **:** Not available. |
| **effects** |  |
| **Potential delayed effects** | **:** Not available. |
| **Long term exposure** |  |
| **Potential immediate** | **:** Not available. |
| **effects** |  |
| **Potential delayed effects** | **:** Not available. |
| **Potential chronic health effects** | |
| Not available. |  |
| **Conclusion/Summary** | **:** Not available. |
| **General** | **:** Once sensitized, a severe allergic reaction may occur when subsequently exposed to |
|  | very low levels. |
| **Carcinogenicity** | **:** No known significant effects or critical hazards. |
| **Mutagenicity** | **:** No known significant effects or critical hazards. |
| **Teratogenicity** | **:** No known significant effects or critical hazards. |
| **Developmental effects** | **:** No known significant effects or critical hazards. |
| **Fertility effects** | **:** No known significant effects or critical hazards. |
| **Other information** | **:** Not available. |



**SECTION 12: Ecological information**

**12.1 Toxicity**

|  |  |  |  |
| --- | --- | --- | --- |
| **Product/ingredient name** | **Result** | **Species** | **Exposure** |
|  |  |  |  |
| zinc oxide | Acute EC50 0.042 mg/l Fresh water | Algae - Pseudokirchneriella | 72 hours |
|  |  | subcapitata - Exponential |  |
|  |  | growth phase |  |
|  | Acute LC50 98 µg/l Fresh water | Daphnia - Daphnia magna - | 48 hours |
|  |  | Neonate |  |
|  | Acute LC50 1.1 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
|  | Chronic NOEC 0.017 mg/l Fresh water | Algae - Pseudokirchneriella | 72 hours |
|  |  | subcapitata - Exponential |  |
|  |  | growth phase |  |
|  |  |  |  |



**Date of issue/Date of revision :** 2/10/2014. ***10/14***



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**SECTION 12: Ecological information**

**Conclusion/Summary** **:** Not available.

**12.2 Persistence and degradability**

**Conclusion/Summary** **:** Not available.

1. **Bioaccumulative potential**

Not available.

1. **Mobility in soil**

|  |  |  |
| --- | --- | --- |
| **Soil/water partition** | **:** | Not available. |
| **coefficient (KOC)** |  |  |
| **Mobility** | **:** | Not available. |
| **12.5 Results of PBT and vPvB assessment** | | |
| **PBT** | **:** Not applicable. | |
| **vPvB** | **:** Not applicable. | |
| **12.6 Other adverse effects** | **:** No known significant effects or critical hazards. | |



**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**13.1 Waste treatment methods Product**

**Methods of disposal :** The generation of waste should be avoided or minimized wherever possible.Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** **:** The classification of the product may meet the criteria for a hazardous waste.

**Packaging**

**Methods of disposal :** The generation of waste should be avoided or minimized wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

**Special precautions** **:** This material and its container must be disposed of in a safe way. Care should be

taken when handling emptied containers that have not been cleaned or rinsed out.

Empty containers or liners may retain some product residues. Vapor from product

residues may create a highly flammable or explosive atmosphere inside the container.

Do not cut, weld or grind used containers unless they have been cleaned thoroughly

internally. Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers.

**Other EU regulations Europe inventory Black List Chemicals Priority List Chemicals**

**Integrated pollution prevention and control list (IPPC) - Air**

**Integrated pollution prevention and control list (IPPC) - Water**

**Date of issue/Date of revision**

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

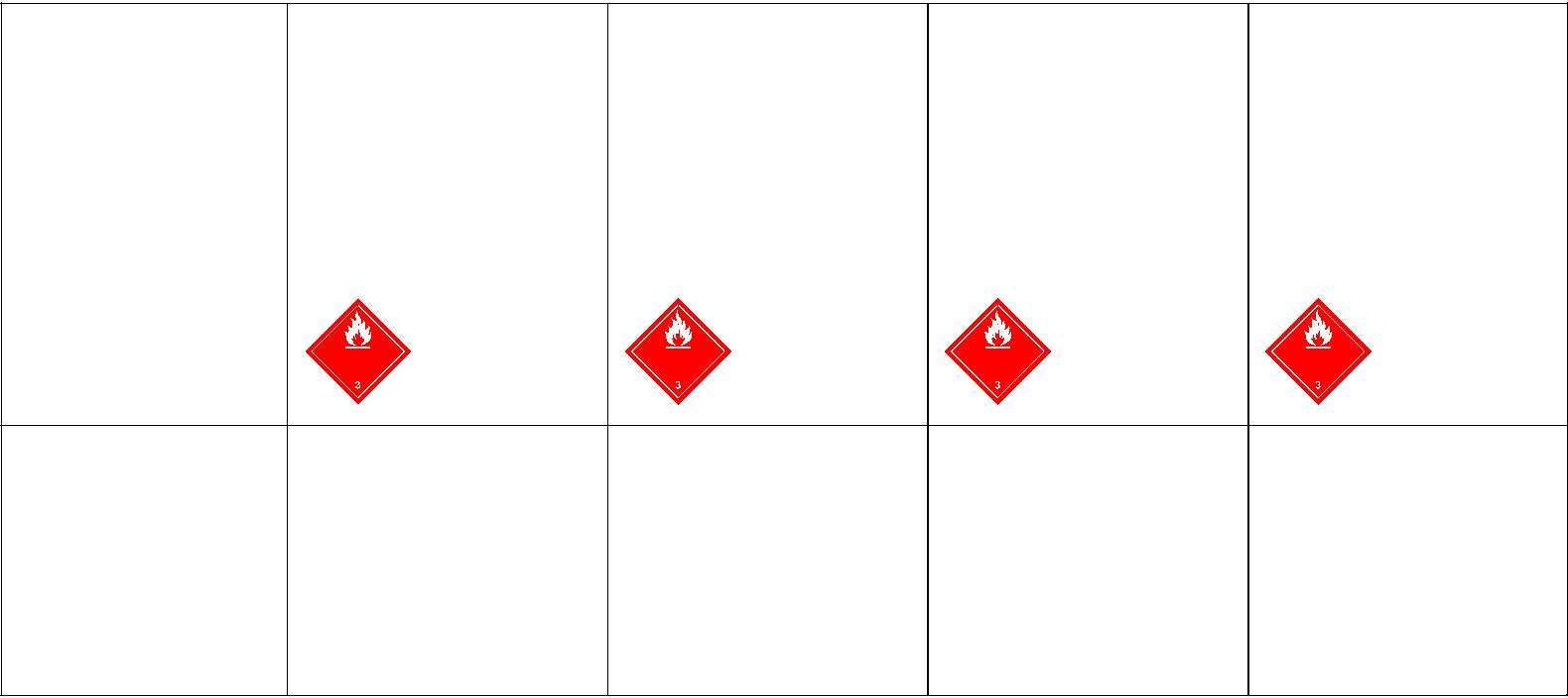
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**SECTION 14: Transport information**



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **ADR/RID** | **ADN** | **IMDG** | **IATA** |
|  |  |  |  |  |
| **14.1 UN number** | 1133 | 1133 | 1133 | 1133 |
|  |  |  |  |  |
| **14.2 UN proper** | Adhesive. | Adhesive. | Adhesive. | Adhesive. |
| **shipping name** |  |  |  |  |
|  |  |  |  |  |
| **14.3 Transport** | 3 | 3 | 3 | 3 |
| **hazard class(es)** |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **14.4 Packing group** | II | II | II | II |
|  |  |  |  |  |
| **14.5** | No. | Yes. | No. | No. |
| **Environmental** |  |  |  |  |
| **hazards** |  |  |  |  |
|  |  |  |  |  |
| **Additional** | **Tunnel code** | - | - | - |
| **information** | (D/E) |  |  |  |

1. **Special precautions for**

**user**

1. **Transport in bulk**
2. **according to Annex II of MARPOL 73/78 and the IBC Code**

* **Transport within user’s premises:** always transport in closed containers that areupright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
* Not available.



**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorization Substances of very high concern**

None of the components are listed.

**:** Not applicable.

**:** Not determined. **:** Not listed

**:** Listed

**:** Not listed

**:** Not listed

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**SECTION 15: Regulatory information**

|  |  |  |
| --- | --- | --- |
| **Chemical Weapons** | **:** | Not listed |
| **Convention List Schedule I** |  |  |
| **Chemicals** |  |  |
| **Chemical Weapons** | **:** | Not listed |
| **Convention List Schedule II** |  |  |
| **Chemicals** |  |  |
| **Chemical Weapons** | **:** | Not listed |
| **Convention List Schedule** |  |  |
| **III Chemicals** |  |  |
| **15.2 Chemical Safety** | **:** This product contains substances for which Chemical Safety Assessments are still | |
| **Assessment** |  | required. |



**SECTION 16: Other information**

Indicates information that has changed from previously issued version.



**Abbreviations and acronyms :** ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Flam. Liq. 2, H225

Acute Tox. 4, H332 Aquatic Chronic 3, H412

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

|  |  |  |  |
| --- | --- | --- | --- |
| **Classification** | |  | **Justification** |
|  |  |  |  |
| Flam. Liq. 2, H225 |  |  | On basis of test data |
| Acute Tox. 4, H332 |  |  | Calculation method |
| Aquatic Chronic 3, H412 |  |  | Calculation method |
|  |  |  |  |
| **Full text of abbreviated H** | **:** H225 | Highly flammable liquid and vapor. | |
| **statements** | H304 | May be fatal if swallowed and enters airways. | |
|  | H319 | Causes serious eye irritation. | |
|  | H332 | Harmful if inhaled. | |
|  | H400 | Very toxic to aquatic life. | |
|  | H410 | Very toxic to aquatic life with long lasting effects. | |
|  | H412 | Harmful to aquatic life with long lasting effects. | |
| **Full text of classifications** | **:** Acute Tox. 4, H332 | | ACUTE TOXICITY: INHALATION - Category 4 |
| **[CLP/GHS]** | Aquatic Acute 1, H400 | | AQUATIC HAZARD (ACUTE) - Category 1 |
|  | Aquatic Chronic 1, H410 | | AQUATIC HAZARD (LONG-TERM) - Category 1 |
|  | Aquatic Chronic 3, H412 | | AQUATIC HAZARD (LONG-TERM) - Category 3 |
|  | Asp. Tox. 1, H304 | | ASPIRATION HAZARD - Category 1 |
|  | Eye Irrit. 2, H319 | | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
|  | Flam. Liq. 2, H225 | | FLAMMABLE LIQUIDS - Category 2 |

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|  |  |  |
| --- | --- | --- |
| **Full text of abbreviated R** | **:** | R11- Highly flammable. |
| **phrases** |  | R65- Harmful: may cause lung damage if swallowed. |
|  |  | R42- May cause sensitization by inhalation. |
|  |  | R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the |
|  |  | aquatic environment. |
|  |  | R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the |
|  |  | aquatic environment. |
|  |  | R53- May cause long-term adverse effects in the aquatic environment. |
| **Full text of classifications** | **:** | F - Highly flammable |
| **[DSD/DPD]** |  | Xn - Harmful |
|  |  | N - Dangerous for the environment |
| **Date of printing** | **:** 2/10/2014. | |
| **Date of issue/ Date of** | **:** 2/10/2014. | |
| **revision** |  |  |
| **Date of previous issue** | **:** 10/29/2013. | |
| **Version** | **:** | 0.01 |

**SECTION 16: Other information**

**Notice to reader**

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.**

**Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**

