EC no

Annex I

2 - Hazards Identification

ProductName

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Highly flammable. Toxic by inhalation, in contact with skin and if

swallowed. Irritating to eyes, respiratory system and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed. Vapors may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 - Composition/Information on Ingredients Product Name

PHENYLPHOSPHINE, CA 10% WEIGHT IN None None None **HEXANES Ingredient Name** Percent CAS# EC no Annex I None

CAS#

PHENYLPHOSPHINE 10 638-21-1 211-325-4 Symbols: F-T R-Phrases: 17-23/24/25-36/37/38

Spontaneously flammable in air. Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system

and skin.

HEXANES 90 None None None Symbols: F-Xn-N R-Phrases: 11-38-48/20-62-65-67-51/53

Highly flammable. Irritating to skin. Harmful: danger of serious

damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility. Harmful: may cause lung

damage if swallowed. Vapors may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 4 - First Aid Measures

AFTER SKIN CONTACT In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

CONDITIONS OF FLAMMABILITY

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

6 - Accidental Release Measures PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is

complete. 7 - Handling and Storage

Directions for Safe Handling: Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Avoid prolonged or repeated

STORAGE Conditions of Storage: Keep tightly closed. Keep away from heat,

SPECIAL REQUIREMENTS: Air and moisture sensitive.

ENGINEERING CONTROLS Safety shower and eye bath. Use nonsparking tools. Mechanical

GENERAL HYGIENE MEASURES

PERSONAL PROTECTIVE EQUIPMENT Respiratory Protection: Use respirators and components tested and

8 - Exposure Controls / Personal Protection

approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose

a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles.

Physical State: Liquid Value At Temperature or Pressure N/A N/A N/A

N/A

N/A

25 °C

dispose

with an

as this

and

Partition Coefficient N/A Viscosity N/A Vapor Density N/A Saturated Vapor Conc. N/A **Evaporation Rate** N/A Bulk Density N/A Decomposition Temp. N/A Solvent Content N/A Water Content N/A Surface Tension N/A Conductivity N/A Miscellaneous Data N/A Solubility N/A 10 - Stability and Reactivity

11 - Toxicological Information ROUTE OF EXPOSURE

and/or phosphine.

HAZARDOUS POLYMERIZATION

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.

Peripheral nervous system. Kidneys. Testes.

Hazardous Polymerization: Will not occur

of this material. Burn in a chemical incinerator equipped afterburner and scrubber but exert extra care in igniting material is highly flammable. Observe all federal, state,

PG: I Subrisk: 3

UN#: 3384

Subrisk: 3

IMDG UN#: 3384 Class: 6.1

Severe Marine Pollutant: No Technical Name: Required

Subrisk: 3 Proper Shipping Name: Toxic by inhalation liquid, flammable, n.o.s.

15 - Regulatory Information

exposure through inhalation. Possible risk of impaired

may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S-PHRASES: 16-26-36/37/39-45-62 Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible). If swallowed, do not induce vomiting: seek medical

advice immediately and show this container or label.

16 - Other Information

For R&D use only. Not for drug, household or other uses. **WARRANTY**:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

12 - Ecological Information No data available.

TARGET ORGAN INFORMATION

14 - Transport Information RID/ADR

local environmental regulations.

Class: 6.1 Proper Shipping Name: Toxic by inhalation liquid, flammable, n.o.s.

PG: I

IATA UN#: 3384 Class: 6.1 PG: I

Proper Shipping Name: Toxic by inhalation liquid,

Technical Name: Required

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES INDICATION OF DANGER: F-T-N Highly Flammable. Toxic. Dangerous for the environment. R-PHRASES: 11-23/24/25-36/37/38-48/20-62-65-67-51/53 Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. Harmful: danger of serious damage to health by prolonged fertility. Harmful: may cause lung damage if swallowed. Vapors

AFTER INHALATION If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Call a physician.

AFTER EYE CONTACT In case of contact with eyes, flush with copious amounts of

AFTER INGESTION

5 - Fire Fighting Measures

Catches fire if exposed to air. **EXTINGUISHING MEDIA**

SPECIAL RISKS Specific Hazard(s): Pyrophoric material. Emits toxic fumes under

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

HANDLING

exposure.

sparks, and open flame. Handle and store under nitrogen. Store at -20°C

exhaust required. Wash thoroughly after handling.

combination (US) or type ABEK (EN 14387) respirator cartridges as

9 - Physical and Chemical Properties

Oxidizing Properties

Explosive Properties

Appearance Property BP/BP Range MP/MP Range Flash Point - 28.870 °C Flammability N/A Autoignition Temp N/A

Explosion Limits N/A Vapor Pressure N/A SG/Density 0.6912 g/cm3

STABILITY Conditions to Avoid: Catches fire if exposed to air. Materials to Avoid: Strong oxidizing agents, Halogens. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Thermal decomposition may produce toxic fumes of phosphorus oxides

Skin Contact: Causes skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation.

13 - Disposal Considerations SUBSTANCE DISPOSAL Contact a licensed professional waste disposal service to

flammable, n.o.s. Marine Pollutant: Yes

Inhalation Packing Group I: Yes

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