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foam, AFFF, chemical powder for flammable liquids. water may not be effective to extinguish the fire, nevertheless it should be used to cool the containers exposed to flames and prevent fires and explosions. For leakage and spillage that have not caught fire, nebulized water may be used to disperse the flammable vapours and protect the people involved in

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stopping the leakage. Equipment: wear equipment complete with helmet and face shield and protection of the neck, self-breathing apparatus at pressure or demand, insulative jacket and trousers, with bands around the arms, legs and waist.

6. Accidental release measures

Exclude sources of ignition and ventilate the area. Cover with inert absorbent material. Collect spillages by means of spark-proof equipment. Use water only to remove residuals, so as not to run the risk of enter the sewer. Do not let the product dry. Contaminated clothes must be left to soak in water before washing. In order to choose safety measures and protection equipment, please see the other sections of this sheet. Spillage in waters: remove the liquid from the surface with flame-proof pumps or manual pumps or suitable absorbent material. Resort to sinking and/or dispersion of the product with suitable substances in open waters, if permitted by the law.

7. Handling and storage

Avoid the accumulation of electrostatic charges. Store the containers sealed and in a well-ventilated place. Vapours may ignite with explosion, it is therefore necessary to avoid accumulation keeping the windows and doors open, ensuring cross-ventilation. Without adequate ventilation, the vapours may accumulate at the bottom and ignite at a distance, if triggered off with the risk of flashback. Keep far away from sources of heat, sparks and naked flames. Do not smoke, use matches or lighters. Keep the containers earthed while decanting and wear antistatic boots. Vigorous stirring and flow through the pipings and equipment may cause the formation an accumulation of electrostatic charges due to the low conductivity of the product. In order to avoid the risk of fire outbreak and explosion never use compressed air during movement.

8. Exposure controls/personal protection.

ISOPROPYL ALCOHOL ;
PROPAN-2-OL
. TLV TWA 983,000 mg/m3 ACGIH
ETHYL ACETATE
. TLV TWA 1440,000 mg/m3 ACGIH

Follow the good industrial hygiene practices adopting suitable individual protective measures such as gloves and overalls. Do not eat or smoke while handling the product. wash hands before eating and at the end of the work
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shift. Periodic health controls are recommended at the discretion of the doctor.

9. Physical and chemical properties

Appearance Liquid
Colour Colourless
Odour Alcol
Flash point < 20ø
Solubility Soluble with alcol

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Specific gravity..... 20ø 1,000 kg/l 0,2

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbonoxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

Ethyl acetate may decompose when heated with water and reacts with strong oxidizing agents. (SEE INRS NIS FORM N18, ED. 1991)

11. Toxicological information

Slight irritation of the eyes; symptoms may include redness, edema, pain and lacrimation. Other possible effects are: irritation of the upper respiratory tract with nose and throat pain, cough, sneezing; mild irritation of the skin on prolonged or repeated contact with erythema, swelling and itching. Ingestion is not a probable route of exposure, but may cause slight depression of the CNS, with symptoms consisting in: headache, dizziness, somnolence. Ingestion can also cause abdominal pain, with diarrhea and vomiting. No evidence has been reported regarding its carcinogenic, mutagenic and toxic effect on reproduction (teratogenesis).

12. Ecological information

Use in accordance with good working practices, avoiding dispersion of the product in the environment. In sections N. 10 and 16, data and judgements expressed on aquatic toxicity, motility, persistence and biodegradability, and bioaccumulation potential are reported.

13. Disposal considerations

Consider the possibility of burning the product in a suitable incenerator, after adding fuel if necessary. Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

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14. Transport informations

Road and rail transport
RID/ADR 3,3b 33/1219 3

Carriage by sea (shipping)
IMDG 3/III
UN NUMBER 1219

Air transportation
ICAO/IATA 3/III

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15. Regulatory information

Physical prop.hazard symbol	F HIGHLY FLAMMABLE
- R11	HIGHLY FLAMMABLE.
- S 2	KEEP OUT OF REACH OF CHILDREN.
- S16	KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
- S29	DO NOT EMPTY INTO DRAINS.
- S33	TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
- S46	IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

16. Further information

The present sheet has been drawn up according to community regulations in force. General references: 1 - Directive 88/379/EEC 2 - Directive 91/325/EEC 3 - The Merck Index Ed. 10 4 - Handling Chemicals Safety 5 - Niosh - Registry of Toxic Effects of Chemical Substances 6 - INRS - Fiche Toxicologique 7 - Patty - Industrial Hygiene and Toxicology 8 - N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1988 9 - EEC Directive 93/18 of 5-4-93 (third revision Dir. 88/379) 10 - EEC Directive 93/21 of 27-4-93 (XVIII revision Dir. 67/548) 11 - IMO (Inter. Maritime Organization), Report N. 35, 1989. Note for the user: The data contained in this sheet are the result of the most up-to-date information available in our Company. The user must ensure that the information is suitable and complete in relation to the specific use of the product.