



## **Accidental release measures**

### Immediate actions

-Shut off all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

### Clean up procedures

-Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage in a suitable inert material such as vermiculite, dry sand or earth and place into appropriate container. Avoid contact with skin or inhalation of spillage, dust or vapour. Clean up personnel should use respiratory and liquid contact safety protection clothing.

## **Handling and Storage**

### Usage precautions

-Keep away from sources of ignition. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours.

Use approved respirator if air contamination is above accepted level. Wear full protective clothing for aged exposure and/or high concentrations.

### Storage Precautions

-Keep away from oxidizers, heat and flames. Isolate from other materials. Keep in a cool, dry, ventilated area and in closed containers. Ground container and transfer equipment to eliminate static sparks risk.

### Storage Criteria

-Chemical storage. No other special storage conditions noted.

## **Exposure Controls and Personnel Protection**

<b>Ingredient Name</b>	<b>CAS No.</b>	<b>STD</b>	<b>LT EXP(8 hrs.)</b>	<b>ST EXP(15 mins.)</b>
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No exposure limits noted for the ingredients. However max 10mg/m<sup>3</sup> recommended.

-Product as supplied from the constituent ingredients can be absorbed through the skin.

## **Protective Equipment**

### Ventilation

-provide adequate general and local exhaust ventilation.

### Respirators

-No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended exposure level (OEL).

### Protective Gloves

-Use protective Gloves. Chloroprene, Nitrile or Butyl Rubber Industrial grade Gloves.

### Eye protection

-Wear approved safety goggles. Full face shield protection preferred.

### Other Protection

-Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

### Hygienic Work routines

-DO NOT SMOKE IN WORK AREA. Wash at the end of each work period and before food consumption, smoking or using the toilet. Remove any clothing that becomes contaminated immediately. Do not eat or drink whilst working with this material.

## **Physical and Chemical Properties**

### Appearance

-colourless liquid

### Odour/Taste

-Mild. Rancid. Sweet.

### Solubility Description

-Active ingredients partly soluble in water. Soluble in: Organic Solvents (some)

<b>Changes of state</b>	<b>Value/range</b>	<b>unit</b>	<b>method</b>
Freezing/Melting point	-25	deg C.	
Boil. point/range	200-230	deg C.	
Flash Point	N/A		
Auto ignition temperature	N/A		

## **Explosion hazard**

Explosion limits

-N/A

Vapour pressure

-N/A

Density

-0.898 - 0.905 @ 20 deg. C.

Solubility

-partly soluble in water

PH Value

-Neutral

Viscosity

-2.0-2.2 cSt @ 25 deg. C.

## **Stability and Reactivity**

Stability

-Normally stable.

Materials to avoid

-Bases, Alkalies (Inorganic), Strong Oxidizing agents, Strong Reducing agents

Hazardous Decomposition products

-Material does not decompose up to the specified boiling point. Thereafter in case of exposure to heat, material can create Vapours/gases/Fumes of: Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>).

## **Toxicological Information**

Toxic Dose-LD50

-ingestion: Toxic dose 1-LD50 24573mg/kg (oral rat)

-ingestion: Toxic dose 2-LD50 6750mg/kg (oral rabbit)

The values of the ingredients are significantly lower than LD50 (oral rat) : 2000mg/kg.

Skin Contact

-Repeated/prolonged contact causes degreasing and may cause irritation. Mutagenic and teratogenic effects have not been noted from testing.

Eye Contact

-Initial eye contact will cause chronic eye irritation. Inhalation -Higher concentrations can cause irritation of the respiratory system, nausea and dizziness.

## **Ecological Information**

Mobility

-accumulates on surface of water. Product remaining on surface evaporates within one day. Larger volumes may penetrate soil layer and could contaminate groundwater.

Bio-Accumulation

Does not significantly bio-accumulate. Unlikely to persist in the aquatic environment.

Degradability

-Material is readily bio-degradable meeting the 10 day window criterion. As the material is substantially water based it is a Zero VOC potential material. Integrated environmental half-life is estimated to be 1-< 10 days.

-BOD5=44 BOD10=55 BOD15=64 BOD20=69 BOD28=75. Figures for concentrated material

Acute Fish Toxicity

-Practically non toxic. However best practice states material should not be drained.

## **Disposal Considerations**

Disposal methods UK

-Dispose of in accordance with Local Authority requirements.

EEC waste listing class according to (94/3/EG)

-Disposal No. 140303 (Solvents/Solvent blends not containing Halogenated material)

Suggested disposal/recovery methods-

-Material can be disposed of by high temp. incineration methods equipped with water fume scrubbing.

-Minor waste content from incineration or filtration waste should be collected and disposed of by licensed Chemical waste removal Contractors. Specification of minor waste content will be mostly that of the production materials for which the cleaning material was used. To advise the disposal contractor therefore, refer to the production material data source.

## **Transport Information**

Ground Transportation ADR/RID

-ADR/RID Not classified

-item " "

-UN number " "

Sea Transportation IMDG - Code

-IMDG Not classified

-page " "

-UN number " "

-Packaging class " "

-EMS number " "

-MFAG 305

Air Transportation ICAO-TI and IATA-DGR

-ICAO/IATA Classification Not classified

-UN ID number " "

-Packaging Class " "

## **Regulatory Information**

### **EEC Supply Label-**

Risk Phrases

-None

Safety Phrases

-S-24/25 Avoid contact with skin and eyes.

-S36/37 Wear suitable protective clothing and gloves.

Statutory Instruments

-Chemicals (Hazard Information and Packaging) regulations.

-Control of Substances Hazardous to Health (CoSHH) regulations.

Guidance Notes

-Occupational Exposure Limits HSE publication No. EH40.

## **Issue date and revision number**

Version 1.0 June 2003.

## **Disclaimer**

This information relates only to the specific material designated and will not be valid for such material used in combination with any other material or in any process. Such information is, to the best of the Manufacturers knowledge and belief, accurate and reliable as of the date shown. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the users sole responsibility to satisfy himself as to the suitability of such information for their particular application.