

SAFETY DATA SHEET

MANALOX 360

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Date: 11 JUL 2007

Version: 1.01

Cancel/replaces: 15 JUN 2005

1 Product and company identification.

PRODUCT NAME : MANALOX 360
DISTRIBUTOR
Name : FedChem, LLC - Subs. FEDERAL PROCESS CORPORATION.
Address : 4620 Richmond Road, Cleveland, OH 44128, USA.
Telephone number : +1 216 464 6440 Hours: M-F 8AM-5PM EST
Email : jmcilhaney@federalprocess.com

Emergency No. (Chemtrec) : +1 703 527 3887.

2 Hazards identification

MOST IMPORTANT HAZARDS

Adverse human health effects : Slightly irritating to eyes and skin.

Physical and chemical hazards : Combustible liquid.
- Fire or explosion

Classification/Specific hazards : According to EEC criteria, this product is not classified as a "hazardous substance".

3 Composition / information on ingredients

Chemical nature : Aluminium monoethyl acetoacetate diisopropoxide

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4 First-aid measures

- Inhalation : Move to the fresh air.
If breathing stops, give artificial respiration.
- Skin contact : Wash immediately with plenty of soap and water.
Remove all contaminated clothing and footwear.
Seek medical advice if necessary.
- Eye contact : Immediately rinse with water for a prolonged period whilst keeping the eyes wide open.
Always refer to an eye specialist, even if there are no visible injuries.
- Ingestion : NEVER attempt to induce vomiting.
Consult a doctor if necessary.
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5 Fire-fighting measures

- Extinguishing media
- Suitable : Alcohol-resistant foam.
Carbon dioxide (CO₂).
Water spray.
- Not suitable : Strong water jet.
- Specific hazards : Combustible
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6 Accidental release measures

- Personal precautions : Avoid contact with skin and eyes.
- Personal protective equipment:
- eye/face protection (safety glasses + visor).
- appropriate gloves.
- Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
- Environmental precautions : Contain the spilled material by bunding.
Avoid direct discharge into drains.
- Methods for cleaning up
- Recovery : Transfer the product into a spare container: - suitably labelled.
- Neutralization : Absorb with:
- sand or inert absorbent.
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- Cleaning/Decontamination : If necessary, wash with water following recovery.
Recover the cleaning water for subsequent disposal.
 - Disposal : Incinerate contaminated materials at an authorized installation.
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7 Handling and storage

HANDLING

- Technical measures : Vapour extraction.
- Measures : Avoid contact with water or humidity.

STORAGE

- Technical measures : Take all necessary precautions to avoid the accidental release of the product outside, due to the rupture of containers or transfer systems.

Storage conditions

- Recommended : Store:
Keep the container hermetically sealed.

- Incompatible products : Oxidizing materials.

- Packaging : - Steel drums.

Packaging materials

- Recommended : Steel.
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8 Exposure controls / personal protection

- Engineering measures : Extraction to remove vapours at their source.

Personal protective equipment

- Respiratory protection : If the occupational exposure limit is exceeded :
Respiratory protective device with a gas filter.
 - Hand protection : Protective gloves made of PVC.
 - Eye protection : Goggles.
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9 Physical and chemical properties

APPEARANCE

- Physical state : Liquid.
 - Colour : yellow.
 - Odour : slight.
 - pH : Not applicable
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Specific temperatures

- Boiling : >260°C.

Flammability characteristics

- Flash point : 83°C (Pensky Martens Closed Cup).

Oxidizing properties : Non oxidizing material according to EEC criteria.

Explosion properties

Explosive limits in air : (Isopropanol formed upon contact with moisture)

- Lower : 2% (Volume).

- Upper : 12 % (volume).

Vapour pressure : Isopropanol:
12.8 kPa, at 38°C.

Vapour density (air = 1) : > 1.

Relative density (water = 1) : 0.98 at 25°C.

Solubility

- in water : Reacts, releasing isopropanol.

- in organic solvents : Soluble in:
- hydrocarbons.

10 Stability and reactivity.

Stability : Stable under normal conditions of use.

Hazardous reactions

- Materials to avoid : - strong oxidizing agents.
On hydrolysis, releases:
- isopropanol.

11 Toxicological information

Acute toxicity

Local effects

: Slightly irritating to the skin.
Repeated or prolonged contact with skin may cause slight irritation.
Slightly irritating to the eyes.

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12 Ecological information

Behaviour in the environment

Persistence/Degradability : No information available.

13 Disposal considerations

WASTE FROM RESIDUES

Destruction/Disposal : Incinerate.
Dispose of in accordance with relevant local regulations.

CONTAMINATED PACKAGING

Decontamination/cleaning : Carefully drain and then steam clean.
Purge residual vapours to avoid any risk of ignition or explosion.

Destruction/Disposal : Recycle following cleaning or dispose of at an authorised site.

NOTE : The user's attention is drawn to the possible existence of local regulations regarding disposal.

14 Transport information

INTERNATIONAL REGULATIONS

Land

- Rail/road (RID/ADR) : NOT restricted.

Sea (IMO/IMDG)

: NOT restricted.

Air (ICAO-IATA)

: NOT restricted.

NOTE

: The above regulatory prescriptions are those valid on the date of publication of this sheet.
Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

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15 Regulatory information

LABELLING

EEC regulations : Mandatory labelling (self-classification) of hazardous preparations:
Not applicable.

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NOTE

: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16 Other information

Uses

- Recommended uses : Manufacture of coatings.

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility.