Safety Data Sheet



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Butanox LPT

1. Product and Company identification

Trade Name: Supplier: Manufacturer:

Butanox LPT ALFA LAVAL Tumba AB Akzo Nobel Polymer Chemicals

bv

Hans Stares väg Stationsplein 4

SE-147 80 Tumba PO Box 247

e-mail <u>sds.question@alfalaval.com</u>

Product Type:

Curing Agent Sweden NL-3800 AE Amersfoort

Tel: +46 8 53 06 50 00 Tel: +31 33 46 76 767

Emergency number: +46 (0)8-33 70 43 open 24h

2. Hazard Identification

Risk of explosion by shock, friction, fire or other sources of ignition.

May cause fire.

Harmful if swallowed.

Causes burn.

3. Composition and Information on the Components

For explanation of R-phrases see section 16.

Hazardous ingredient	Weight- %	Ec No	CAS No	Classification	Risk Phrases
Methyl ethyl ketone peroxide	35	215-661-2	1338-23-4	C, E	R02 R22 R34 R07
Diisobutyl phthalate	60	201-553-2	84-69-5		
Methyl ethyl ketone	2	201-159-0	78-93-3	F, Xi	R11 R36 R66 R67

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4. First Aid Measurements	
Symptoms and effects	Harmful if swallowed. Causes burn. Causes injury to the cornea and eyelids. Risk of serious damage to eyes. Call a physician immediately.
Inhalation	Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Remove contaminated clothing. Always seek medical attention.
Skin	Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Launder clothes before reuse. Always seek medical advice
Eye	Rinse immediately with tepid water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Continue the rinse during the transport to hospital. Always seek medical advice.
Ingestion	Rinse mouth with water. Do NOT induce vomiting . Call a physician immediately!
Advice to physician	Bring this MSDS to the physician. Symptomatic treatment is advised.

5. Fire Fighting Measurements	
Extinguishing media	Carbon dioxide, dry chemical powder, dry sand, water, foam.
Unsuitable extinguishing media	Halones.
Special exposure hazards	CAUTION: re-ignition may occur. Decomposition under effect of heating. If involved in a fire, it will support combustion. In case of fire and/or explosion do not breathe fumes.
Hazardous decomposition/ combustion products	Carbon dioxide, Water, Acetic acid, Formic acid, Propanoic acid, Methyl ethyl ketone
Protective equipment	Wear suitable protective clothing. Wear self-contained breathing apparatus.
Other information	Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition. Cool closed containers with water.

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Personal precautions

Do not breathe fumes/vapor. Avoid contact with skin and eyes. For personal protection, see section 8.

Environmental precautions

Do not allow entering drains or watercourses.

Methods for cleaning up

Collect as much as possible in a clean container for (preferable) reuse or disposal. Cover the remainder with inert absorbent (e.g. vermiculite) for disposal. Keep contents moist. The waste should NOT be confined.

Other information

CAUTION: re-ignition may occur.

7. Handling and Storage Handling Never weigh out in the storage room. When using do not eat, drink or smoke. Do not pipette by mouth. Do not breathe fumes/vapor. Handle in well ventilated areas. Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps). Keep product and emptied container away from heat and sources of ignition. Confinement must be avoided. Avoid shock and friction. Avoid contact with skin and eyes. Fire and explosion prevention Use explosion-protected equipment. Keep away from sources of ignition - No smoking. Vapors are heavier than air and may spread along floors. Storage requirements Store in accordance with local/national regulations. Keep away from food, drink and animal feeding stuffs. Store in a dry well ventilated place away from sources of heat and direct sunlight. Keep only in the original container. For maximum quality store below 25°C. Keep container upright to prevent leakage. It is recommended to use electrical equipment of temperature Other information group T3. Wash hands thoroughly after handling or contact. Keep working clothing separately and do not take them home.

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8. Exposure Control / Personal Protection

Engineering controls Explosion proof ventilation recommended. Ensure good

ventilation and local exhaustion of the working area.

Exposure limits Methyl ethyl ketone peroxide: OES-STEL 1.5 mg/m³

Diisobutyl phthalate: OES-TWA 5.0 mg/m³

Methyl ethyl ketone: OES-TWA 300 mg/m³. Can be absorbed

through skin.

Respiratory protection Do not breathe vapors! In case of insufficient ventilation wear

suitable respiratory equipment (respirator with Filter A).

Hand protection Wear suitable protective gloves of neoprene or synthetic rubber.

Eye protection Wear eye/face protection. A face shield is preferred over goggles.

Skin and body protection Wear suitable protective clothing.

Other information Launder clothes before reuse.

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9. Physical and Chemical Properties

Appearance Liquid.

Colour Clear and colorless.

Odour Faint.

Boiling point/range Do not distill (decomposes).

Melting point/range Turbid < -10 °C.

Above the SADT value. **Flashpoint**

Flammability Not determined.

Auto ignition temperature Test method not applicable. (See Section 7).

Explosive properties Yes.

Explosion limits Not applicable.

Oxidizing properties Not applicable.

Vapour pressure Not determined.

Density 1060 kg/m³ (20 °C).

Bulk density Not applicable.

Solubility in water Partly miscible with water.

Solubility in other solvents Phthalates.

pH value Weak acid.

Partition coefficient, n-

octanol/water

Not determined.

Relative vapor density (air=1) Not determined.

Viscosity Approx. 27 mPas (20 °C).

Active oxygen content 8.4-8.6 %.

Peroxide content 35 %.

SADT 60 °C. See also Section 10: Other information.

Specific conductivity Not determined. Document number 9844000884-ENG-02 First issued Revised date 2003-08-29 Error!

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10. Stability and Reactivity

Stability SADT - (Self accelerating decomposition temperature) is the

lowest temperature at which self-accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature 60 °C. Contact with incompatible substances can cause decomposition

at or below the SADT.

Conditions to avoid Avoid temperatures above 25 °C store in original package. Avoid

shock and friction. Confinement must be avoided.

Materials to avoid Avoid contact with rust, iron and copper. Contact with incom-

patible materials such as acids, alkalis, heavy metals and reducing agents will result in hazardous decomposition. Do not mix with peroxide accelerators. Use only Stainless steel 316.

PVC, polyethylene or glass-lined equipment.

Other information Emergency procedures will vary depending on conditions. The

customer must have an emergency response plan in place.

11. Toxicological Information

No experimental toxicological data on the preparation as such available. The following data are applicable to the ingredient(s) listed below.

Methyl ethyl ketone peroxide, 40 % in Dimethyl

phthalate

Oral LD50 rat: 1017 mg/kg

Dermal LD50 rat: 4000 mg/kg

Inhalation LC50 rat:17 mg/l; 4 h exposure time

Skin: Corrosive Eye: Corrosive

Sensitization: Not sensitizing

Genotoxicity Ames test: Not mutagenic.

Methyl ethyl ketone Oral LD50 rat: 2737 mg/kg

Dermal LD50 rabbit: 6480 mg/kg Inhalation LC50 rat: 23.5000 mg/m³

Skin: Moderately irritating Eye: Moderately irritating

Diisobutyl phthalate Oral LD50 rat: >2000 mg/kg

Skin: Non-irritating

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12. Eco-toxicological Information

No experimental ecological data are available on the preparation as such. The following data are applicable to the ingredient(s) listed below.

Methyl ethyl ketone peroxide, 40 %

in Dimethyl phthalate

Fish acute toxicity, 96h-LC50: 44.2 mg/l. (Poecilia reticulata.) Bacteria activated sludge respiration inhibition test EC50: 48.0

mg/l.

Degradation biotic: Readily biodegradable (closed bottle test).

Diisobutyl phthalate

Fish Acute toxicity, 96h-LC50: 3 mg/l Daphnia magna, 24h-EC50: 7.4 mg/l Degradation biotic: Readily biodegradable.

Other information: Bio Concentration Factor (BCF) < 100.

Methyl ethyl ketone

Fish Lepomis macrochirus: 96h-LC50: 3.22 g/l Degradation biotic: Readily biodegradable. Other information: Naturally occurring substance.

13. Disposal

Disposal of product

Waste disposal in accordance with regulations (most probably

controlled incineration).

Disposal of packaging

According to local regulations.

Other information

For further advice contact manufacturer.

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14. Transport Information

ADR/ADR-S/ RID/RID-S UN-No: 3105

Proper shipping name: Organic peroxide type d, liquid; (Methyl

ethyl ketone peroxide)

Class: 5.2

Classification code: P1 Packaging group: -

TREAM-Card or ERG no: CEFIC TEC (R)-52GP1-L

IMDG-code UN-No: 3105

Proper shipping name: Organic peroxide type d, liquid; (Methyl

ethyl ketone peroxide)

IMO-class: 5.2 Subsidiary risk: -Packaging group: -EmS No: F-J, S-R Marine pollutant: No

DGR UN-No: 3105

Proper shipping name: Organic peroxide type d, liquid; (Methyl

ethyl ketone peroxide(s))

Class: 5.2 Subsidiary risk: -Packaging group: -

According to existing regulations ADR/ADR-S 2003-01-01

RID/RID-S 2003-01-01 IMDG-code Amdt 31-02 DGR 44'th Edition First issued Revised date 2003-08-29 Error!

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15. Regulatory Information

Chemical description Methyl ethyl ketone peroxide, solution in diisobutyl phthalate.

Label Symbol(s):







C -Corrosive

Risk Phrases R2 Risk of explosion by shock, friction, fire or other sources of

ignition.

R7 May cause fire.

R22 Harmful if swallowed.

R34 Causes burns.

Safety Phrases S3/7 Keep container tightly closed in a cool place.

S14 Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal

soaps).

S26 In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face

protection.

S50 Do not mix with peroxide-accelerators or reducing agents.

Other information Substance and/or product listed in Directive 96/82/EC. The

environmental classification for this product comes into force on

30th July 2002 (1999/45/EC).

16. Other Information

Explanation to R-phrases in section

2

R02 Risk of explosion by shock, friction, fire or other sources of

ignition.

R07 May cause fire. R11Highly flammable. R22 Harmful if swallowed. R34 Causes burns.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

This information only concerns the above-mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Important changes have been made in section: 1, 2, 3, 4, 6, 7, 10, 14 and 15.

DISCLAIM OF RESPONSIBILITY

Alfa Laval provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is only a guide to the potential hazards of the product.

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