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# MATERIALS SAFETY DATA SHEET

## BUTANOX LPT-IN

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### I. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Product Information  
Trade name

: BUTANOX LPT-IN

Use of the  
Substance/Mixture

: Specific use(s):

Curing agent

### II. HAZARDS IDENTIFICATION

<b>Appearance</b>	
Form	liquid
Colour	colourless
Odour	Faint.
<b>GB 6944/12268</b>	
UN number	UN 3105
Proper shipping name	ORGANIC PEROXIDE TYPE D, LIQUID (Methyl ethyl ketone peroxide)
Class	5.2
Packing group	Not Assigned
<b>Hazard Summary</b>	
General advice	Immediate medical attention is required. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
<b>Physical and chemical hazards</b>	Heating may cause a fire.
<b>Health hazards</b>	
Inhalation	Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Harmful if inhaled.
Skin	Symptoms may be delayed. Causes severe skin burns.
Eyes	Causes serious eye damage.
Ingestion	Causes burns. May be harmful if swallowed.
<b>Environmental hazards</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

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#### GHS Classification

Organic peroxides, Type D  
Acute toxicity, Category 5, Oral  
Acute toxicity, Category 4, Inhalation  
Skin corrosion/irritation, Category 1  
Serious eye damage/eye irritation, Category 1  
Acute aquatic toxicity, Category 2

#### GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H242 Heating may cause a fire.  
H303 May be harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.  
H401 Toxic to aquatic life.

Precautionary statements

#### Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
P220 Keep/Store away from clothing/ combustible materials.  
P234 Keep only in original container.  
P235 Keep cool.  
P261 Avoid breathing mist, vapours or spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell. P363 Wash contaminated clothing before reuse.

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P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

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**Storage:**

P405 Store locked up. P410 Protect from sunlight. P420

Store away from other materials.

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

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**Physical and chemical hazards**

Heating may cause a fire.

**Health hazards**

Inhalation

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- : Inhalation of aerosols may cause irritation to mucous membranes.
- Thermal decomposition can lead to release of irritating gases and vapours.
- Harmful if inhaled.

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Skin

- : Symptoms may be delayed.
- Causes severe skin burns.
- : Causes serious eye damage

Eyes

- : Causes burns.
- May be harmful if swallowed.

Ingestion

Additional information

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No further data available.

**Test Results**

Acute oral toxicity

- : Acute toxicity estimate: 2,815 mg/kg
- : Method: Calculation method

Acute inhalation toxicity

- : Acute toxicity estimate : 4.26 mg/l Exposure time: 4 h
- : Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity

- : Acute toxicity estimate: > 5,000 mg/kg
- : Method: Calculation method

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**Environmental hazards**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

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Chemical name	CAS-No.	Classification	Concentration [%]
Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	1338-23-4	Org. Perox. B; H241 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 5; H313 Skin Corr./Irrit. 1; H314 Eye Dam./Irrit. 1; H318 Aquatic Acute 2; H401	$\geq 30 - < 37$
Methyl ethyl ketone	78-93-3	Flam. Liq. 2; H225 Acute Tox. 5; H303 Eye Dam./Irrit. 2A; H319 STOT SE 3; H336	$\geq 1 - < 10$

Remarks: Methyl ethyl ketone peroxide 30-37%  
solution in Diisononyl phthalate

For the full text of the H-Statements mentioned in this Section, see Section 16.

**IV. FIRST AID MEASURES****General advice**

- : Immediate medical attention is required.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

**Inhalation**

- : If breathed in, move person into fresh air.  
Consult a physician after significant exposure.

**Skin contact**

- : Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

**Eye contact**

- : Rinse with plenty of water.  
Get medical attention immediately. Continue to rinse during transport.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

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#### Notes to physician

Symptoms

- : Clean mouth with water and drink afterwards plenty of water.
- Never give anything by mouth to an unconscious person.
- Take victim immediately to hospital.

Do not induce vomiting! May cause chemical burns in mouth and throat.

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#### Risks

- : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

- : May be harmful if swallowed.
- Causes serious eye damage.
- Harmful if inhaled.
- Causes severe burns.

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#### Treatment

- : Treat symptomatically.

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## V. FIREFIGHTING MEASURES

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#### Suitable extinguishing media

- : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Unsuitable extinguishing media

- : High volume water jet

Specific hazards during firefighting / Specific hazards arising from the chemical

- : CAUTION: reignition may occur.
- Supports combustion.
- Do not use a solid water stream as it may scatter and spread fire.
- Water spray may be ineffective unless used by experienced firefighters.
- Hazardous decomposition products formed under fire conditions.

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#### Combustion products

- : Fire will produce smoke containing hazardous combustion products (see section 10).

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Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations .

## VI. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Wear respiratory protection.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Emergency measures on accidental release : Evacuate personnel to safe areas.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
Prevent unauthorised persons entering the zone.

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up /  
Methods for containment : Keep wetted with water.  
Soak up with inert absorbent material and dispose of as hazardous waste.  
Confinement must be avoided.  
Never return spills in original containers for re-use.

Reference to other sections : For disposal considerations see section 13.  
For personal protection see section 8.

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## VII. HANDLING AND STORAGE

### Handling

Advice on safe handling

- : For personal protection see section 8.
- Avoid formation of aerosol.
- Do not breathe vapours or spray mist.
- Smoking, eating and drinking should be prohibited in the application area.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Open drum carefully as content may be under pressure.
- Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion

- : Use explosion protected equipment.
- Keep away from sources of ignition - No smoking.
- No sparking tools should be used.
- Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps).
- Do not cut or weld on or near this container even when empty.
- Keep away from combustible material.

Temperature class

- : It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded.

### Storage

Requirements for storage areas and containers

- : No smoking.
- Keep in a well-ventilated place.
- Electrical installations / working materials must comply with the technological safety standards.
- Keep only in original container.
- Store away from other materials.

Maximum storage temperature:

: 25 °C

Other data

- : No decomposition if stored and applied as directed.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Methyl ethyl ketone	78-93-3	PC-TWA	300 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	
		PC-STEL	600 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	

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#### Components with workplace control parameters

ACGIH: American Conference of Governmental Industrial Hygienists  
BEI: Biological Exposure Index  
MAC: Maximum Allowable Concentration  
NIOSH: National Institute for Occupational Safety and Health  
OEL: OEL: Occupational exposure limit.  
STEL: Short term exposure limit  
TWA: Time Weighted Average

#### Occupational exposure limits of decomposition products

Decomposition products	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Formic acid	64-18-6, 64-18-6	PC-TWA	10 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	
		PC-STEL	20 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	
Acetic acid	64-19-7, 64-19-7	PC-TWA	10 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	
		PC-STEL	20 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	
Propionic acid	79-09-4, 79-09-4	PC-TWA	30 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	
Methyl ethyl ketone	78-93-3, 78-93-3	PC-TWA	300 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	
		PC-STEL	600 mg/m <sup>3</sup>	2007-04-27	GBZ 2.1-2007	

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#### **Appropriate engineering controls**

Explosion proof ventilation recommended.

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal protective equipment**

Respiratory protection : In the case of vapour or aerosol formation use a respirator with an approved filter.  
Filter A

#### **Hand protection**

: Neoprene

Nitrile rubber

#### **Eye/face protection**

: Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.

#### **Skin and body protection**

: Protective suit

#### **Hygiene measures**

: Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **General advice**

: Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform respective authorities.

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## IX. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid

Colour : colourless

Odour : Faint.

Odour Threshold : No data available

### Safety data

pH : not determined

Melting point : No data available

Boiling point/boiling range : Decomposes below the boiling point.

Flash point : Above the SADT value

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Decomposition products may be flammable.

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapour pressure : not determined

Relative Vapor Density : no data available

Relative Density : 1.012 at 20 °C

Bulk Density : not applicable

Water Solubility : at 20 °C  
immiscible



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Solubility in other solvents

: Miscible with:, Phthalates

Partition coefficient: n-octanol/water

: No data available

Auto-ignition temperature

: Test method not applicable

Decomposition temperature

: 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 SADT. Contact with incompatible substances can cause decomposition below the SADT.

Self-Accelerating decomposition temperature (SADT)

: 60 °C

Viscosity, dynamic

: 32.4 mPa.s at 20 °C

Viscosity, kinematic

: 32.02 mm<sup>2</sup>/s at 20 °C

Explosive properties

: Not explosive

Oxidizing properties

: Not classified as oxidising.

Active Oxygen Content

: 8.4 - 8.5 %

Organic peroxides

: 30 - 37 %

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**X. STABILITY AND REACTIVITY**

Materials to avoid

: Contact with the following incompatible materials will result in hazardous decomposition:

Acids and bases

Iron

Copper

Reducing agents

Heavy metals

Rust

Conditions to avoid

: Confinement must be avoided.  
Heat, flames and sparks.**LUZON:**REGIONAL OFFICE  
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Hazardous decomposition products

: Carbon oxides  
Formic acid  
Acetic acid  
Propionic acid  
Methyl ethyl ketone

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Thermal decomposition

: 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 SADT. Contact with incompatible substances can cause decomposition below the SADT.

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Reactivity

Chemical stability

Hazardous reactions

: Stable under normal conditions.

: Stable under recommended storage conditions.

: No dangerous reaction known under conditions of normal use.

Self-Accelerating decomposition temperature (SADT)

: 60 °C

## XI. TOXICOLOGICAL INFORMATION

### Hazard Summary

Acute toxicity

: May be harmful if swallowed.  
Harmful if inhaled.

Skin corrosion/irritation

: Causes severe burns.

Serious eye damage/eye irritation

: Causes serious eye damage.

Respiratory or skin sensitisation

: Respiratory sensitisation: Not classified based on available information.  
Skin sensitisation: Not classified based on available information.

Germ cell mutagenicity

: Not classified based on available information.

Carcinogenicity

: Not classified based on available information.

Reproductive toxicity

: Not classified based on available information.

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STOT - single exposure  
STOT - repeated exposure  
Aspiration hazard

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#### Potential Health Effects

Inhalation

: Not classified based on available information.

: Not classified based on available information.

: Not classified based on available information.

Skin

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Eyes

Ingestion

: Inhalation of aerosols may cause irritation to mucous membranes.  
Thermal decomposition can lead to release of irritating gases and vapours.  
Harmful if inhaled.

: Symptoms may be delayed.  
Causes severe skin burns.

: Causes serious eye damage.

: Causes burns.  
May be harmful if swallowed.

: None known.

Aggravated Medical Condition  
Symptoms of Overexposure

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: The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

#### Toxicology Assessment

Further information

: No further data available.

Test result  
Acute oral toxicity

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: Acute toxicity estimate: 2,815 mg/kg  
Method: Calculation method

Acute inhalation toxicity

: Acute toxicity estimate : 4.26 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity

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: Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Component: Methyl ethyl ketone peroxide; Reaction mass of butane -2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane**

Acute oral toxicity

: LD50: 1,017 mg/kg  
Species: Rat

Acute inhalation toxicity

: LC50 (Rat): 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity

: LD50: 4,000 mg/kg  
Species: Rat

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Skin irritation

Eye irritation

Germ cell mutagenicity  
Genotoxicity in vitro

Genotoxicity in vivo

Carcinogenicity

Reproductive toxicity/Fertility

Target Organ Systemic  
Toxicant - Repeated  
exposure

Aspiration toxicity

**Component: Methyl ethyl ketone**

Acute oral toxicity

Acute dermal toxicity

Skin irritation

Eye irritation

Target Organ Systemic  
Toxicant - Single exposure

Aspiration toxicity

: Result: Causes burns: RESIN

: Result: Risk of serious damage to eyes.

: Ames test  
Result: negative

: Not classified due to data which are conclusive although  
insufficient for classification.

: No data available

: Species: Rat, male and female  
Application Route: Oral  
Dose: 0 25, 50, 75 milligram per kilogram  
General Toxicity - Parent: No observed adverse effect level:  
50 mg/kg bw/day  
General Toxicity F1: No observed adverse effect level F1: 50  
mg/kg bw/day  
Fertility: No observed adverse effect level Parent: 75 mg/kg  
bw/day  
Method: OECD Test Guideline 421  
GLP: yes

: The substance or mixture is not classified as specific target  
organ toxicant, repeated exposure.

: No aspiration toxicity classification

: LD50: 2,737 mg/kg  
Species: Rat

: LD50: 6,480 mg/kg  
Species: Rabbit

: Result: Repeated exposure may cause skin dryness or  
cracking.  
Moderately irritating.

: Result: Irritating to eyes.

: Exposure routes: Inhalation  
The substance or mixture is classified as specific target organ  
toxicant, single exposure, category 3 with narcotic effects.

: No aspiration toxicity classification

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## XII. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

Additional ecological information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.

#### Component: Methyl ethyl ketone peroxide; Reaction mass of butane -2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane

#### Ecotoxicity effects

Toxicity to fish

: LC50: 44.2 mg/l  
Exposure time: 96 h  
Species: Poecilia reticulata (guppy)  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates

: 39 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Test Type: Immobilization

Toxicity to algae

: ErC50: 5.6 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (algae)  
Test Type: Growth inhibition

Toxicity to bacteria

: EC10: 12 mg/l  
Exposure time: 0.5 h  
Species: activated sludge  
Test Type: Respiration inhibition  
Method: Domestic OECD Guideline 209

#### Elimination information (persistence and degradability)

Bioaccumulation

: Bioconcentration factor (BCF): 10.3  
Not expected considering the low log Pow value.

Biodegradability

: Result: Readily biodegradable.  
Method: Closed Bottle test

#### Component: Methyl ethyl ketone

#### Ecotoxicity effects

Toxicity to fish

: LC50: 3,220 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)

#### Elimination information (persistence and degradability)

Biodegradability

: Result: Readily biodegradable.

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- : The product should not be allowed to enter drains, water courses or the soil.
- Do not contaminate ponds, waterways or ditches with chemical or used container.
- Hazardous waste
- Dispose of contents/container in accordance with local regulation.

**Contaminated packaging**

- : Empty remaining contents.
- Dispose of as unused product.
- Do not burn, or use a cutting torch on, the empty drum.
- Due to the high risk of contamination recycling/recovery is not recommended.
- Follow all warnings even after the container is emptied.

**XIV. TRANSPORT INFORMATION****IATA-DGR**

UN/ID No.

: UN 3105

Proper shipping name

: Organic peroxide type D, liquid  
(Methyl ethyl ketone peroxide)

Class

: 5.2

Subsidiary risk

: HEAT

Packing group

: Not Assigned

Labels

: 5.2 (HEAT)

Packing instruction (cargo aircraft)

: 570

Packing instruction  
(passenger aircraft)

: 570

Environmentally hazardous

: no

**IMDG-Code**

UN number

: UN 3105

Proper shipping name

: ORGANIC PEROXIDE TYPE D, LIQUID  
(Methyl ethyl ketone peroxide)

Class

: 5.2

Packing group

: Not Assigned

Labels

: 5.2

EmS Code

: F-J, S-R

Marine pollutant

: no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****GB 6944/12268**

UN number

: UN 3105

Proper shipping name

: ORGANIC PEROXIDE TYPE D, LIQUID  
(Methyl ethyl ketone peroxide)**LUZON:**REGIONAL OFFICE  
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Packing group

Labels

Environmentally hazardous

: 5.2

: Not Assigned

: 5.2

: no

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## XV. REGULATORY INFORMATION

### Notification status

DSL : YES. All components of this product are on the Canadian DSL  
AICS : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory  
ENCS : YES. On the inventory, or in compliance with the inventory  
ISHL : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory  
TCSI : YES. On the inventory, or in compliance with the inventory  
TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviation see section 16.

### National regulatory information

#### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

Identification of Major Hazard Installations for Dangerous Chemicals (GB 18218)

Category : Threshold quantity  
Organic peroxides : 50 t

### Further information

Law on the Prevention and Control of Occupational Diseases

## XVI. OTHER INFORMATION

### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H241 : Heating may cause a fire or explosion.  
H302 : Harmful if swallowed.  
H303 : May be harmful if swallowed.  
H313 : May be harmful in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H336 : May cause drowsiness or dizziness.  
H401 : Toxic to aquatic life.

### Full text of other abbreviations

GBZ 2.1-2007 : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

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GBZ 2.1-2007 / PC-TWA

: Permissible concentration - time weighted average

GBZ 2.1-2007 / PC-STEL

: Permissible concentration - short term exposure limit

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## TECHNICAL DATA SHEET

### BUTANOX LPT-IN

Butanox LPT-IN - Methyl ethyl ketone peroxide (MEKP) for curing unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures. This product is very suitable for extra slow-gelling and marine applications, and specially designed for filament winding.

Specification	
Appearance	Clear colorless liquid
Total Active Oxygen	8.4-8.6%
SADT	60
Characteristics	
Density, 20	1.017 g/cm <sup>3</sup>
Viscosity, 20	32.4 mPa.s

### APPLICATIONS

Butanox LPT-IN is a methyl ethyl ketone peroxide (MEKP) for the curing of unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures. Butanox LPT-IN gives in comparison with most other ketone peroxides a significantly longer gel time and is therefore particularly suitable for those applications where a long gel time or production time is required, for instance in the production of large parts and in filament winding.

### THERMAL STABILITY

Organic peroxides are thermally unstable substances, which may undergo self-accelerating decomposition. The lowest temperature at which self-accelerating decomposition of a substance in the original packaging may occur is the Self-Accelerating Decomposition Temperature (SADT). The SADT is determined on the basis of the Heat Accumulation Storage Test.

SADT

60°C

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Due to the relatively unstable nature of organic peroxides a loss of quality can be detected over a period of time. To minimize the loss of quality, a maximum storage temperature ( $T_s$  max. ) is recommended for each organic peroxide product.

 $T_s$  Max.

25°C

Note: When stored under the recommended storage conditions, Butanox LPT-IN will remain within the specifications for a period of at least six months after delivery.

#### PACKAGING AND TRANSPORT

The standard packaging is a 30 l HDPE can for 30 kg peroxide solution. In Asia Pacific the standard packaging is a 30 l HDPE can for 20 kg peroxide solution. Both packaging and transport meet the international regulations. Butanox LPT-IN is classified as Organic peroxide type D; liquid; Division 5. 2; UN 3105.

#### SAFETY AND HANDLING

Keep containers tightly closed. Store and handle Butanox LPT-IN in a dry well-ventilated place away from sources of heat or ignition and direct sunlight. Never weigh out in the storage room. Avoid contact with reducing agents (e. g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers and metal soaps). Please refer to the Materials Safety Data Sheet (MSDS) for further information on the safe storage, use and handling of Butanox LPT-IN.

#### MAJOR DECOMPOSITION PRODUCTS

Carbon dioxide, water, acetic acid, formic acid, propionic acid, methyl ethyl ketone.

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