

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.06.2013

Revision: 21.06.2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **Trade name:** 1,1'-[methylenebis(oxy)]dibutane
- **CAS Number:**
2568-90-3
- **EC number:**
219-909-0
- **Registration number** 17-2119959394-26-0000 8 (Pre-registration number)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation**
Used as intermediates.
Anti-foam agent,
Adhesives, and cleaners/degreasers
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KairavChemofarbe Industries Ltd.
502, LBS Marg,
Opposite Asain Paints,
Bhandup (w), Mumbai 400078, India
- **Further information obtainable from:**
Ph:022-25968361/62,
Fax: 022-25958586
- **1.4 Emergency telephone number:**
Emergency telephone number:
Telephone number of EU importer:
Opening hours:
Other comments(e.g. language(s) of the phone service): English

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R38:Irritating to skin.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Information concerning particular hazards for human and environment:** Not applicable.

(Contd. on page 2)

IN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.06.2013

Revision: 21.06.2013

Trade name: 1,1'-[methylenebis(oxy)]dibutane

(Contd. of page 1)

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS02 GHS07

· Signal word Warning

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterization: Substances

· CAS No. Description

2568-90-3 1,1'-[methylenebis(oxy)]dibutane

· Identification number(s)

· **EC number:** 219-909-0

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **After inhalation:** Keep patient calm, remove to fresh air, seek medical attention.

· **After skin contact:** Wash skin with soap and water. If irritation develops, seek medical attention.

· After eye contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

· **After swallowing:** If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

IN

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.06.2013

Revision: 21.06.2013

Trade name: 1,1'-[methylenebis(oxy)]dibutane

(Contd. of page 2)

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture formaldehyde**
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self contained breathing apparatus and protective clothing to prevent contact with skin.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Breathing protection required. Sources of ignition should be kept well clear.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Protect from air. Prevent contact with air/oxygen (formation of peroxide).
- **Information about fire - and explosion protection:**
Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Suitable materials for containers: Stainless steel 1.4306 (V2A)
- **Information about storage in one common storage facility:**
Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** Used as intermediates.
Anti-foam agent,
Adhesives, and cleaners/degreasers

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.

(Contd. on page 4)

IN

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.06.2013

Revision: 21.06.2013

Trade name: 1,1'-[methylenebis(oxy)]dibutane

(Contd. of page 3)

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the skin.
 - Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	-59.1 -58 °C
Boiling point/Boiling range:	182.11 °C
- **Flash point:** 62 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:**
- **Decomposition temperature:** Not applicable
- **Self-igniting:** Not applicable
- **Danger of explosion:** Not determined.

(Contd. on page 5)

IN

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.06.2013

Revision: 21.06.2013

Trade name: 1,1'-[methylenebis(oxy)]dibutane

(Contd. of page 4)

· Explosion limits: Lower:	Not determined.
· Vapour pressure at 20 °C:	1 hPa
· Density at 20 °C: · Evaporation rate	0.84 g/cm ³ Not applicable.
· Solubility in / Miscibility with water at 20 °C:	0.25 g/l
· Partition coefficient (n-octanol/water) at 20 °C:	4.1 log POW
· Viscosity: Dynamic: Kinematic:	Not applicable. Not available
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid:** Keep away from ignition sources, heat or flame.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

Oral	LD50	> 5376mg/kg bw (rat)
Inhalative	LC50 (static)	46mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Germ cell mutagenicity : Negative
carcinogenicity: No data available
Reductive Toxicity: No data available

SECTION 12: Ecological information

- **12.1 Toxicity**

· **Aquatic toxicity:**

LC50 (static)	> 46 < 100 mg/l (Leuciscus idus)
NOEC (static)	46mg/l (Leuciscus idus)

(Contd. on page 6)

IN

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.06.2013

Revision: 21.06.2013

Trade name: 1,1'-[methylenebis(oxy)]dibutane


(Contd. of page 5)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential BCF:** 30
- **12.4 Mobility in soil half life:** 17 days
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN1993 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | 1993 FLAMMABLE LIQUID, N.O.S. (1,1'-[methylenebis(oxy)]dibutane)
FLAMMABLE LIQUID, N.O.S. (1,1'-[methylenebis(oxy)]dibutane) |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA | <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label |
| <ul style="list-style-type: none"> · Class · Label | 3 Flammable liquids.
3 |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | III |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | No |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user | Warning: Flammable liquids. |

(Contd. on page 7)

IN

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.06.2013

Revision: 21.06.2013

Trade name: 1,1'-[methylenebis(oxy)]dibutane

(Contd. of page 6)

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· UN "Model Regulation":	U N 1993, FLAMMABLE LIQUID, N.O.S. (1,1' -[methylenebis (oxy)]dibutane), 3, III

SECTION 15: Regulatory information

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out and shall be performed at the time of REACH registration.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Product safety department.
- **Contact:**

Kairav Chemofarbe Industries Ltd
Ph: 022-25968361/62
kairav@chemofarbe.com

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical

Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- **Sources**

1) REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

2) <http://apps.echa.europa.eu/registered/data/dossiers/DISS-abdd129a-cc83-70bb-e044-00144f67d249/DISS-abdd129a-cc83-70bb-e044-00144f67d249> DISS-abdd129a-cc83-70bb-e044-00144f67d249.html

- *** Data compared to the previous version altered.**

Section 3: Composition /Information on Ingredients

Section 4: First-aid measures

Section 5: Fire-fighting measures

Section 6: Accidental Release measures

Section 7: Handling and storage.

Section 8: Exposure Controls/Personal protection.

Section 9: Physical and Chemical properties.

Section 10: Stability and Reactivity.

Section 11: Toxicological Information.

Section 12: Ecological Information.

Section 13 - Disposal Considerations