



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LOBA WS 2K Contact Hardener
ARTICLE NUMBER: 11468
CHEMICAL FAMILY: Aliphatic Polyisocyanate in an organic solvent

MANUFACTURER: LOBA GmbH & Co. KG
Leonberger Strasse 56-62
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Phone 011 49 (0)7156/357-220

For Emergency Assistance Involving Chemicals – Call INFOTRAC
U.S. 800-535-5053
INTERNATIONAL +1-352-323-3500
Info you need when you call: *Product Name* or *Manufacturer Name*

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

IRRITANT TO SKIN, EYES AND RESPIRATORY PASSAGES.
INHALATION MAY CAUSE RESPIRATORY SENSITIZATION.
REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION.
KEEP OUT OF REACH OF CHILDREN.

POTENTIAL HEALTH EFFECTS: See section 11.

Aliphatic polyisocyanate is an irritant to skin, eyes and respiratory passages.
Overexposure may cause lung damage. Skin contact may cause allergic dermatitis.
Chronic inhalation or a single large dose may cause respiratory allergic (chemical asthma) reaction at levels below the TLV.

2-butoxyethylacetate is an irritant to skin, eyes and respiratory passages.

Hexamethylene diisocyanate is highly toxic by inhalation and toxic by absorption through skin. Overexposure may cause chemical bronchitis with asthma-like

wheezing, pulmonary inflammation and edema. Respiratory sensitization may develop after overexposure.

ROUTE(S) OF ENTRY: Inhalation, skin and eye contact.

CARCINOGENICITY: NTP-No, IARC-No, OSHA-No

This material is considered hazardous by the OSHA Hazard Communication Standard. (29CFR1910.1200)

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS#	% By Wt.
Aliphatic polyisocyanate	Confidential	50-75
2-butoxyethyl acetate	112-07-2	20-40
Hexamethylene diisocyanate	822-06-0	<0.1

4. FIRST AID MEASURES:

SKIN: Immediately remove contaminated clothing. Wash thoroughly with soap or mild detergent and water. Do not use solvents or thinners. Get medical attention if irritation occurs.

EYES: Hold eyes open and flush for at least 15 minutes with large amounts of water. Get immediate medical attention.

INGESTION: Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION: Remove to fresh air immediately. Administer oxygen or artificial respiration, if needed. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide, dry powder, or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Emits toxic fumes of carbon monoxide, nitrogen oxides, isocyanate and hydrogen cyanide. Use self-contained breathing apparatus and full protective clothing.



6. ACCIDENTAL RELEASE MEASURES:

SPILL AND LEAK PROCEDURES: Evacuate nonessential personnel. Ventilate area. Contain spills using inert absorbent and place in suitable containers. Use decontamination solution, nonionic surfactant (Union Carbide's Tergitol TMN-10) 20% and water, 80% or concentrated ammonia 3-8%, detergent 2% and water 90-95%

7. HANDLING AND STORAGE

STORAGE: Store closed containers away from heat and moisture.

HANDLING: Wear protective equipment suitable to prevent skin and eye contact and inhalation. Do not eat, drink or smoke in area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Component	CAS#	Exposure Limits
Aliphatic polyisocyanate	Confidential	0.5mg/m ³ TWA, 1.0mg/m ³ STEL*
2-butoxyethyl acetate	112-07-2	20 ppm TWA ACGIH
Hexamethylene diisocyanate	822-06-0	0.005 ppm ACGIH TWA

* Manufacturer Guideline Level (MGL)

ENGINEERING CONTROLS: Use local exhaust ventilation.

RESPIRATORY PROTECTION: If airborne concentration exceeds recommended limits, use a NIOSH approved respirator (recommended for use in isocyanate-containing environments) in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134. Air purifying or fresh air supplied respirator may be necessary for certain applications.

SKIN PROTECTION: Clothing suitable to prevent skin contact. Check suitability recommendations by protective equipment manufacturers. Butyl rubber or nitrile rubber gloves are recommended. Do not use latex gloves.



EYE PROTECTION: Chemical goggles and full face-shield if splash hazard exists.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Liquid
COLOR:	In accordance with specification
ODOR:	Characteristic
FLASH POINT:	140 °F (60°C)
BOILING POINT:	322 °F (161°C)
IGNITION TEMPERATURE:	670 °F (355°C)
AUTO IGNITION: POINT.....	Not self igniting
VAPOR PRESSURE:	1.3kPa
VISCOSITY:	NA
DENSITY:	1.077g/cm ³
VOC CONTENT:.....	377 g/liter
SOLUBILITY IN WATER.....	Reacts with water

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Reacts with water.

HAZARDOUS DECOMPOSITION PRODUCTS: See Section 5.

POLYMERIZATION: Will not occur under regular conditions of use.

INCOMPATIBILITIES: Exothermic reaction with amines and alcohols

11. TOXICOLOGICAL INFORMATION

See section 3. Potential Health Effects

Persons with chronic respiratory ailments such as, asthma or chronic bronchitis should not work with this material.

Aliphatic isocyanate;

-LD50 oral-rat: >2000 mg/kg

-Primary irritation rabbit skin: Mild irritant

-Primary irritation rabbit eye: Non irritant

-Skin sensitization guinea pig: OECD TG 406-negative, OECD TG 429-positive

This MSDS conforms to the American National Standard, ANSI Z400.1-2004

Version 3, February 28, 2008



2-butoxyethyl acetate;

-LD50 oral-rat: 2,400 mg/kg

-LD50 skin-rabbit: 1500 mg/kg

Tests on laboratory animals caused bladder, blood, central nervous system and kidney effects.

12. ECOLOGICAL INFORMATION

Avoid contamination of ground water or waterways. Do not discharge into sewers

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME Not regulated.

15. REGULATORY INFORMATION

All components of this product are on the TSCA Inventory.

SARA Title III:

Contains a maximum of 40% 2-butoxyethylacetate, which is subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

Note: Entries under this section cover only those regulations typically addressed in the MSDS generating process, such as, TSCA, and EPCRA/SARA Title III.



16. OTHER INFORMATION

HAZCOM LABEL: WARNING!
IRRITANT TO SKIN, EYES AND RESPIRATORY PASSAGES.
INHALATION MAY CAUSE RESPIRATORY SENSITIZATION.
REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION.
KEEP OUT OF REACH OF CHILDREN.

To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.