

Tel:-+91-40-2756 2932 / 2720 1179 Fax:- 91-40-2756 2634 / 2720 1454 Email: alkalimetals@alkalimetals.com | Website: www.alkalimetals.com AN ISO 9001: 2000 & 14001 COMPANY



Manufacturers of Sodium Amide, Sodium Alkoxides, Sodium Hydride, Sodium Azide, Tetrazoles, Amino Pyridines, Pyridine Derivatives, Cyclic Compounds, Fine Chemicals, Oleo Chemicals & Oleoresins

# MATERIAL SAFETY DATA SHEET TRIMETHYL BORATE

#### **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MSDS Name: TRIMETHYL BORATE Synonyms : Methyl borate

Company Identification: Alkali Metals Ltd., Plot B-5, Block III, IDA Uppal Hyderabad, India - 500 039

Tel :- 0091 40 2756 3002 / 2720 1179 Fax :- 0091 40 2756 2634

Email:-alkalimetals@alkalimetals.com

# **SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**

CAS#	Chemical Name	EINECS#
121-43-7	Trimethyl borate	204-468-9

**Hazard Symbol** : XNF Risk phrases : 11 21

### **SECTION 3 - HAZARDS IDENTIFICATION**

# **EMERGENCY OVERVIEW**

Highly flammable, Harmful in contact with skin.

#### Potential Health Effects:-

Eye : Causes mild eye irritation

Skin : May causes skin irritation. May be harmful if absorbed through the skin.

**Ingestion**: May cause irritation of digestive tract, May be harmful if swallowed. **Inhalation**: May causes respiratory tract irritation. May be harmful if inhaled

Chronic : Not available

#### **SECTION 4 - FIRST AID MEASURES**

**Eyes** : Immediately flush eyes with plenty of water occasionally lifting the upper and

lower lids. Get medical aid.

Skin : Flush skin with plenty of water while removing contaminated clothing and

shoes.

Ingestion: Get medical aid. Wash mouth out with water.

**Inhalation**: Remove from exposure and move to fresh air immediately. If not breathing,

artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

give

**General Information :** As in any fire, wear a self-contained breathing apparatus and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flask back. Will burn if involved in a fire. Containers may explode in the heat of fire. Flammable liquid and vapor.

**Extinguishing Media:** Use water spray to cool fire-exposed containers. Use foam dry chemical, carbon dioxide.

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**General Information:** Use proper personal protective equipment.

: Absorb spill with inert material (eg sand or earth) then place into a suitable

disposal container. Remove all sources of ignition. Use spark-proof tool.

#### **SECTION 7 - HANDLING and STORAGE**

Handling:- Use spark proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes.

Storage:- Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Keep under nitrogen blanket.

### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls:- Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure limits: CAS # 127-43-7

## **Personal Protective Equipment**

: Wear chemical splash goggles. Eves

:- Wear appropriate protective gloves to prevent skin exposure. Skin Clothing :- Wear appropriate protective clothing to prevent skin exposure.

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** : Clear liquid : Colourless **Appearance** Odor : Not available. : Not available. Hq Vapor Pressure : Not available. **Viscosity** : Not available.

**Boiling Point** : 68-69°C

: - 34 deg C (-29.20°F)

Boiling Point

Freezing/Melting Point

Autoignition Temperature

: - 34 deg C (-29.20 r
: Not available.
: - 8 deg C (-17.60°F)

. o deg C (-17 : Not available : Not available **Explosion limits: Lower Explosion limits: Upper** Solubility in water : Reacts

Specific Gravity/Density : 0.915 gms /cc Molecular Formula : C<sub>3</sub>H<sub>9</sub>O<sub>3</sub>B **Molecular Weight** : 103.91

# **SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability:- Stable under normal temperatures and pressures. Moisture sensitive.

Conditions to Avoid:- Incompatible materials, ignition sources, exposure to moist air or water.

Incompatibilities with Other Materials:- Oxidizing agents, Acids, fluorine, air.

Hazardous Decomposition Products:- Carbon monoxide, carbon dioxide, oxides of boron.

Hazardous Polymerization: - Will not occur.

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

RTECS#:- CAS# 121-43-7 : ED5600000

LD50/LC50:-

CAS # 121-43-7 : Draize test, rabbit, eye : 500 mg

Moderate

Oral, mouse : LD 50= 1290 mg / kg, Oral, rat : LD 50= 6140 mg / kg,

Skin, rabbit: LD 50= 1980 uL / kg; Not available

Carcinogenicity:- Trimethyl borate - Not listed as a carcinogen by ACGIH, IARC or NTP.

**SECTION 12 - ECOLOGICAL INFORMATION** 

Not available

**SECTION 13 - DISPOSAL CONSIDERATIONS** 

Dispose of in a manner consistent with federal, state, and local regulations.

# **SECTION 14 - TRANSPORT INFORMATION**

	IATA	IMO	RID / ADR
Shipping Name	Trimethyl borate	Trimethyl borate	Trimethyl borate
Hazard class	3	3	3
UN number	2416	2416	2416
Packing group	II	Ш	II

## **SECTION 15 - REGULATORY INFORMATION**

# **European / International Regulations**

European Labeling in accordance with EC directives

Hazard Symbols: XNF

# **Risk Phrases:**

R 11 Highly flammable.

R 21 Harmful in contact with skin.

# Safety Phrases:

S 2 Keep out of reach of children.

S 16 Keep away from sources of ignition – No smoking.

S 23 Do not inhale gas / fumes / vapour / spray.

S 25 Avoid contact with eyes.

WGK (Water Danger/Protection)

CAS# 121-43-7: Not available.

#### Canada

CAS # 121-43-7 is listed on the DSL list.

# **US Federal**

**TSCA** 

CAS # 121-43-7 is listed on the TSCA inventory.

# **SECTION 16 - ADDITIONAL INFORMATION**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Alkali Metals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Alkali Metals has been advised of the possibility of such damages.



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