

_	
	Page : 1
	Revised edition no :
	Date 5/7/2015
	Supersedes :
	TLCSB

TLC Sprayer

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

GHS Product Identifier

Product Name: TLC Sprayer

Other means of Identification

Synonyms: none

Recommended use of the chemical and restrictions on use

Recommended Use: No information available
Uses advised against: No information available

Supplier's Details

Supplier Address:

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA

Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

2. HAZARD IDENTIFICATION

Classification

Serious Eye Damage/Eye Irritation	Category 2A
Carcinogenicity	Category 2
Specific Target Organ Systemic toxicity (Single Exposure)	Category 3
Simple Asphyxiant	Yes
Flammable Aerosols	Category 1
Gases Under Pressure	

GHS label elements, including precautionary statements

EMERGENCY OVERVIEW

Signal Word Danger

Hazard Statements

- Causes serious eye irritation
- Suspected of causing cancer
- May cause respiratory irritation
- May cause drowsiness or dizziness
- Extremely flammable aerosol



Page : 2	
Revised edition no :	
Date 5/7/2015	_
Supersedes :	_

TLC Sprayer

TLCSB







Appearanc Clear

Physical State

Aerosol

Odor Odor Fragranced

Precautionary Statements

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Wash face, hands and any exposed skin thoroughly after handling.
- Wear eye/face protection.
- Avoid breating dust/fune/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces No smoking.
- Do not spray on an open flam or other ignition source.
- Pressurized container: Do no pierce or burn, even after use.

General Advice

• If exposed or concerned: Get medical attention/advice

- IF IN EYES: Rinse cautionsly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage

- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F

Disposal

• Dispose of contents/container to an approved waste disposal plant.

Hazzard Not Otherwise Classifed (HNOC)

Rapid evaporation of the liquid may cause frostbite.

Other information

May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Dimethyl Ether	115-10-6	< 55	*
Isobutane	75-28-5	< 30	*
Propane	74-98-6	< 30	*



Page: 3	
Revised edition no :	
Date 5/7/2015	
Supersedes :	

TLC Sprayer

TLCSB

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention immediately if irritation persists.

Skin Contact Wash off with warm water and soap. In case of contact with liquefied gas, thaw frosted parts

with lukewarm water. Get medical attention if symptoms occur.

Inhalation IF INHALED:Remove to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

attention

Ingestion Not an expected route of exposure

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Eye irritation/reactions. Frostbite. Drowsiness. Dizziness. Simple asphyxiant.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO 2). Dry chemical. Alcohol-resistant foam. Water fog.

Unsuitable Extinguishing MediaNo information available.

Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion Products Thermal decomposition can lead to release of irritating and

toxic gases and vapors: Carbon oxides. Nitrogen oxides (NOx).

Explosion Data

Sensitivity to Mechanical Impact Yes
Sensitivity to Static Discharge Yes

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH(approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsContents under pressure. Remove all sources of ignition. Do not puncture or incinerate cans.

Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled

material

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up



Page: 4
Revised edition no:
Date 5/7/2015
Supersedes:

TLC Sprayer

TLCSB

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers. Cover liquid spill with sand, earth or

other noncombustible absorbent material. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition.

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other

chemicals.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIHTLV	OSHAPEL	NIOSHIDLH
Dimethyl Ether 115-10-6	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm
Dimethyl Ether 115-10-6			

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection No protective equipment is needed under normal use conditions. Risk of contact, wear:

Safety glasses with side-shields.

Skin and Body Protection No protective equipment is needed under normal use conditions. Lightweight protective

clothing. Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion.

Respiratory ProtectionNo protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, approved respiratory protection should be worn.

Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Aerosol Appearance Clear

Odor ether Odor Threshold No information available



Page: 5 Revised edition no: Date 5/7/2015 Supersedes:

TLC Sprayer

TLCSB

Remarks/ - Method **Values Property**

No data available Enter here рΗ Melting Point/Range No data available Enter here **Boiling Point/Boiling Range** -42.2 to -11.7º C for concentrate

Flash Point -104 º C Open cup (for pure ethanol)

Evaporation rate No data available Enter here

Flammability (solid, gas) No data available Enter here Flammability Limits in Air No data available Enter here upper flammability limit No data available Enter here lower flammability limit No data available Enter here Vapor Pressure 45-55 psig @ 70 F Enter here No data available Vapor Density Enter here **Specific Gravity** 0.6 water = 1 3.50% Water Solubility Enter here Solubility in other solvents No data available Enter here Partition coefficient: n-octanol/water No data available Enter here **Autoignition Temperature** No data available Enter here **Decomposition Temperature** No data available Enter here Viscosity No data available Enter here

Flammable Properties Not Flammable Enter here

No data available **Explosive Properties** Enter here No data available **Oxidizing Properties** Enter here

Other information

100% VOC Content (%)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information



Page : 6
Revised edition no :
Date 5/7/2015
Supersedes :
TLCSB
ILCOD

Inhalation May cause irritation of respiratory tract. May cause drowsiness and dizziness.

Intentional misuse by deliberately concentrating and inhaling contents may be

Eye Contact Contact with eyes may cause serious eye irritation based on the components present

within the product.

TLC Sprayer

Skin Contact Contact with product may cause frostbite.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dimethyl Ether		-	=308.5 mg/L
Isobutane			658 mg/L
Propane			658 mg/L

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening

of the eyes. Avoid skin contact with leaking liquid (danger of frostbite).

Delayed and immediate effects and also chronic effects from short and long term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.

Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed and

abused as an alcoholic beverage. Vinyl acetate is identified by IARC and ACGIHas a potential carcinogen based on data in animal studies. Lifetime exposure to high vapor concentrations (600 ppm) of Vinyl acetate caused malignant and benign tumors of the respiratory tract of rats, but not in mice: this response possibly being associated with the irritant effect. Vinyl acetate has been tested for carcinogenic potential in rats in two separate drinking water studies. In one study, in which animals were exposed to concentrations up to 0.5% in water, there was no evidence of carcinogenicity. In the second study, conducted at higher

concentrations (up to 1% in water), evidence of cancer in the stomach and oral cavities was

observed. There is no evidence that vinyl acetate causes cancer in humans.

Chemical Name	ACGIH	IARC	NTP	OSHA

Reproductive Toxicity No information available.

STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure No information available.

Aspiration Hazard No information available.

Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral LD50 Dermal Inhalation



Page: 7	
Revised edition no :	
Date 5/7/2015	
Supersedes :	

TLC Sprayer

TLCSB

Vapor

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Log Pow
Dimethyl Ether	-0.18
Isobutane	2.89
Propane	2.3

Other Adverse Effects

No information available.

13.	DISPOSAL	CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper shipping name Consumer commodity

Hazard Class ORM-D

Description Consumer commodity, ORM-D

Emergency Response Guide

Number

126

TDG

UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1

Description UN1950, Aerosols, 2.1

MEX

UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1

Description UN1950, Aerosols, 2.1

ICAO



Page : 8
Revised edition no :
Date 5/7/2015
Supersedes :
TLCSB

TLC Sprayer

UN-Number ID8000

Proper Shipping Name Consumer commodity

Hazard Class

Description ID8000, Consumer commodity, 9

<u>IATA</u>

UN-Number ID8000

Proper Shipping Name Consumer commodity

Hazard Class 9 ERG Code 9L

Description ID8000, Consumer commodity, 9

IMDG/IMO

UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2

EmS No. F-D, S-U

Description UN1950, Aerosols, 2.1 (18.3°C o.c.)

15. REGULATORY INFORMATION

International Inventories

TSCA All components of this product are either listed or are exempt on the TSCA inventory.

DSL Substances comply or are exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA313 - Threshold Values %

SARA311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardYesSudden Release of Pressure HazardYesReactive HazardNo

Clean Water Act

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ



Page : 9
Revised edition no :
Date 5/7/2015
Supersedes :
TLCSB

TLC Sprayer

U.S. State Regulations

California Proposition 65

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	CAS-No	California Prop. 65

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

NFPA	Health Hazard 2	Flammability 4	Instability 0	Physical and Chemical Hazards

16. OTHER INFORMATION

Flammability 4 **HMIS Health Hazard 2*** Physical Hazard 0 **Personal Protection X**

Prepared By LOBA CHEMIE PVT.LTD.

> 107 Wode House Road, Jehangir Villa, Colaba, 400005. Mumbai INDIA

+91 22 6663 6663

Issuing Date 5-July-15 **Revision Date** 5-July-15 **Revision Note** Initial Release.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheeet

^{*}Indicates a chronic health hazard.