

TCI AMERICA SAFETY DATA SHEET

Revision number: 1 **Revision date: 07/06/2018**

1. IDENTIFICATION

Product name: Isobutene (ca. 8% in Dichloromethane)

Product code: 10909

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America

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Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour

+1-800-424-9300 (U.S.A.) +1-703-527-3887 (International)

Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4]

Skin Corrosion/Irritation [Category 2] WHMIS 2015: Eye Damage/Irritation [Category 2A]

Germ Cell Mutagenicity [Category 2] Carcinogenicity [Category 1B]

Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]

Danger! Signal word:

Hazard Statement(s): Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

Suspected of causing genetic defects

May cause cancer Toxic to aquatic life

Store locked up.

Toxic to aquatic life with long lasting effects

Causes damage to: Respiratory System Central Nervous System

Causes damage to organs through prolonged or repeated exposure: Liver Central Nervous System

May cause damage to organs through prolonged or repeated exposure: Blood

Pictogram(s) or Symbol(s):







Precautionary Statement(s): [Prevention]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapors or spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

[Response]

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed: Call a poison center or doctor. Collect spillage.

[Storage]

[Disposal] Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

[HNOC]

May develop pressure

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Components: Isobutene (ca. 8% in Dichloromethane)

Percent:

CAS RN: 115-11-7
Molecular Weight: 56.11
Chemical Formula: C₄H₈

Hazardous ingredient(s): Isobutene (8%) 115-11-7

Dichloromethane (92%) 75-09-2

Synonyms: 2-Methylpropene (ca. 8% in Dichloromethane), Isobutylene (ca. 8% in Dichloromethane)

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Call a POISON CENTER or doctor/physician.

Ingestion: Call a POISON CENTER or doctor/physician. Rinse mouth.

Symptoms/effects:

Acute: Redness.

Delayed: No data available

Indication of any immediate medical attention:

Not available.

Notes to physician:
No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Hazardous combustion products: These products include: Carbon oxides

Other specific hazards: Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

etc.

Environmental precautions:

Methods and materials for containment

and cleaning up:

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned. Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

generation of vapour or mist. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Avoid all contact!

May develop pressure. Open carefully.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a refrigerator.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Heat-sensitive

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

(Dichloromethane) **Exposure limits:**

ACGIH TLV(TWA):50 ppm

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed Appropriate engineering controls:

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Respiratory protection:

pH:

Vapour pressure:

Vapour density:

Acetate=1):

Dynamic Viscosity:

Evaporation rate(Butyl

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

Safety goggles. A face-shield, if the situation requires. Eye protection:

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Form: Clear

Colour: Colorless - Very pale yellow

No data available Odour: Odor threshold: No data available No data available Odour threshold:

Melting point/freezing point: No data available

(Dichloromethane) -95°C

Boiling point/range: No data available

(Dichloromethane) 39°C

Decomposition temperature: No data available

Relative density: 1.21

Kinematic viscosity: No data available

Log Pow: No data available

Log Pow: (Dichloromethane) 1.25

Flash point: No data available

No data available Flammability(solid, gas):

Autoignition temperature:

Flammability or explosive limits:

Lower:

No data available No data available Upper:

No data available

No data available.

No data available

No data available

No data available

No data available

Solubility(ies):

No data available [Water] [Other solvents] No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions. Possibility of hazardous reactions: No special reactivity has been reported.

Oxidizing agents, Strong acids, Strong bases, Halogens, Light metals Incompatible materials:

Hazardous decomposition products: Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

No data available

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available

IARC: NTP: OSHA: No data available No data available No data available

Reproductive toxicity:

No data available

Target organ(s):

Causes damage to: Respiratory System Central Nervous System

Causes damage to organs through prolonged or repeated exposure: Liver Central Nervous System

May cause damage to organs through prolonged or repeated exposure: Blood

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available No data available Crustacea: No data available Algae:

Persistence / degradability: Bioaccumulative potential(BCF):

Mobility in soil

No data available No data available

Log Pow:

No data available Soil adsorption (Koc): No data available Henry's Law (PaM 3/mol): No data available

13. DISPOSAL CONSIDERATIONS

Disposal of product:

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US)

UN number: Proper Shipping Name: Class or Division: **Packing Group:**

UN1593 Dichloromethane 6.1 Toxic material.

IATA

Proper Shipping Name: Class or Division: **UN number: Packing Group:**

UN1593 Dichloromethane 6.1 Toxic material.

IMDG

EmS number:

er:

Proper Shipping Name: UN1593 Class or Division: UN **Packing Group:**

numb Dichloromethane 6.1 Toxic material.

F-A, S-A

Reportable Quantitiy: 1000 Pounds (454 Kilograms)

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed **SARA 302:** Not Listed

State Regulations

State Right-to-Know

Massachusetts Listed **New Jersey** Listed Pennsylvania Listed California Proposition 65: Not Listed

Other Information

HMIS Classification: NFPA Rating: Health: 2 Health: 2 Flammability: Flammability: 3 3 Physical: 0

Instability:

International Inventories

On DSL Canada: DSL EC-No: 204-066-3

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.