

TCI AMERICA SAFETY DATA SHEET

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

1. IDENTIFICATION

Product name: 2-Hexanone Product code: H0114

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

Company: TCI America

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Chemical Emergencies:

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

+1-503-286-7624

Transportation Emergencies:

Chemtrec 24-Hour

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Responsible department:

TCI America

Environmental Health Safety and Security

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2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 2A]

WHMIS 2015: Specific Target Organ Toxicity (Single Exposure) [Category 3]

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

Flammable Liquids [Category 3]

Signal word: Danger!

Hazard Statement(s): Flammable liquid and vapor

Causes serious eye irritation May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: Peripheral Nervous System May cause damage to organs through prolonged or repeated exposure: Testis Central Nervous System

Pictogram(s) or Symbol(s):







Precautionary Statement(s): [Prevention]

Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection.

[Response]

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. 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. Get medical advice or attention if you feel unwell. In case of fire: Use dry chemical, dry sand or foam to

[Storage] [Disposal] Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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 be harmful if swallowed and enters airways. May be harmful if in contact with skin. May be harmful

if swallowed.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance Components: 2-Hexanone Percent: >98.0%(GC) CAS RN: 591-78-6 Molecular Weight: 100.16 **Chemical Formula:** C₆H₁₂O

Synonyms: **Butyl Methyl Ketone**

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 if you feel unwell.

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

skin irritation or rash occurs: Get medical advice/attention.

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

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell. Rinse mouth. Ingestion:

Symptoms/effects:

Redness. Acute:

Delayed: May have effects on the respiratory tract.

Indication of any immediate medical attention:

Not available.

Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Dry chemical, foam, carbon dioxide. Suitable extinguishing media: Unsuitable extinguishing media: Water (It may scatter and spread fire.)

These products include: Carbon oxides Hazardous combustion products:

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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

Environmental precautions:

controlled around the leakage area by roping off, etc.

Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. 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.

Prevention of secondary hazards:

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

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. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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 contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws. 2-Hexanone TCI AMERICA Page 3 of 5

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

 ACGIH TLV(TWA):
 5 ppm (skin)

 ACGIH TLV(STEL):
 10 ppm (skin)

 OSHA PEL(TWA):
 100 ppm

 JSOH OELs(TWA):
 5 ppm (skin)

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

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

Personal protective equipment

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

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

regulations.

Hand protection: Impervious gloves.

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

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

Coloriess - Very pale yellow

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

Melting point/freezing point:-57°C (-71°F)pH:No data availableBoiling point/range:127°C (261°F)Vapour pressure:No data available

Decomposition temperature: No data available Vapour density: 3.5

Relative density: 0.81 Dynamic Viscosity: No data available

Kinematic viscosity: No data available

Log Pow: No data available Evaporation rate(Butyl No data available

Log Pow: No data available Evaporation rate(Butyl Acetate=1):

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Flash point: 23°C (73°F) Autoignition temperature: 423°C (793°F)

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: 1.2% Upper: 8%

Solubility(ies):

[Water] Slightly soluble (1.4g/100mL, 20°C)

[Other solvents]
Soluble: Ether, Alcohols, Acetone

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

Conditions to avoid: Spark, Open flame, Static discharge

Incompatible materials: Oxidizing agents, Strong bases, Reducing agents

Hazardous decomposition products: Carbon dioxide, Carbon monoxide

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11. TOXICOLOGICAL INFORMATION

RTECS Number: MP1400000

Acute Toxicity:

ihl-rat LC50:8000 ppm/4H orl-hmn LDLo:714.3 mg/kg orl-rat LD50:2590 mg/kg skn-rbt LD50:4800 mg/kg

Skin corrosion/irritation: skn-rbt 500 mg/24H MLD

Serious eye damage/irritation:

eye-rbt 500 mg/24H MLD

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

sln-smc 48 mmol/L

Carcinogenicity: No data available

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

Reproductive toxicity:

ihl-rat TCLo:1000 ppm/6H (1-21D preg)

Aspiration hazard: May be harmful if swallowed and enters airways.

Target organ(s):

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: Peripheral Nervous System May cause damage to organs through prolonged or repeated exposure: Testis Central Nervous System

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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

Persistence / degradability: No data available

Bioaccumulative potential(BCF):

Mobility in soil

Log Pow: 1.38 134 Soil adsorption (Koc): Henry's Law (PaM 3/mol): 9.4

13. DISPOSAL CONSIDERATIONS

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and **Disposal of product:**

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

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

Disposal of container:

Other considerations:

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14. TRANSPORT INFORMATION

DOT (US)

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

UN1224 Ketones, liquid, n.o.s 3 Flammable liquid

<u>IATA</u>

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

UN1224 Ketones, liquid, n.o.s 3 Flammable liquid II

IMDG

er:

UN UN1224 Proper Shipping Name: Class or Division: Packing Group:

numb Ketones, liquid, n.o.s 3 Flammable liquid III

EmS number: F-E, S-D

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
New Jersey
Pennsylvania
California Proposition 65:
Listed
Listed

Other Information

NFPA Rating:HMIS Classification:Health:0Health:1Flammability:3Flammability:3Instability:0Physical:0

International Inventories

 Canada: DSL
 On DSL

 EC-No:
 209-731-1

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.