

Revision number: 3 Revision date: 02/18/2017

1. IDENTIFICATION

Product name: Product code: 2-Octanone O0038

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

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SAFETY DATA SHEET

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com	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: WHMIS 2015:	Acute Toxicity - Dermal [Category 4] Flammable Liquids [Category 3]
Signal word:	Warning!
Hazard Statement(s):	Flammable liquid and vapor Harmful in contact with skin
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	Wear protective gloves and protective clothing. Keep away from heat, sparks, open flames or other hot surfaces No smoking. Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection.
[Response]	If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.
[Ctorono]	Storp in a well ventilated place. Keep cool

Store in a well-ventilated place. Keep cool.

Dispose of contents and container in accordance with US EPA guidelines for the classification and

determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Hazards not otherwise classified: [HNOC] May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:

[Storage]

[Disposal]

Substance

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Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Synonyms: 4. FIRST-AID MEASURES	2-Octanone >98.0%(GC) 111-13-7 128.22 C ₈ H ₁₆ O Hexyl Methyl Ketone Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim
CAS Number: Molecular Weight: Chemical Formula: Synonyms:	111-13-7 128.22 C ₈ H ₁₆ O Hexyl Methyl Ketone Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim
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4. FIRST-AID MEASURES	
Inhalation:	is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved an take precautions to protect themselves.
Skin contact:	Call a poison center or doctor if you feel unwell. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved an take precautions to protect themselves.
Eye contact:	If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper eyelids. If eye irritation persists get medical advice/attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	No data available No data available
mmediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO ₂ , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the cher lazardous combustion products:	

Hazardous combustion products:	These products include: Carbon oxides
Other specific hazards:	Closed containers may explode from heat of a fire.

Special precautions for fire-fighters:

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient. Do not use straight streams. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Move containers from fire area if you can do it without risk. **Special protective equipment for fire-fighters:**

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use spark- proof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.
Personal protective equipment:	Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Splash goggles. Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Isolate area until gas has dispersed. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:**

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. Avoid contact with skin. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Combustible substances, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection:Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.Hand protection:Wear protective gloves.Eye protection:Splash goggles.Skin and body protection:Lab coat.

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Liquid Clear Colorless - Very pale yellow Fruity No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	-16°C (Freezing point) (3°F) 173°C (343°F) No data available 0.82 No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available 0.2kPa/25°C 4.4 No data available
Partition coefficient: n-octanol/water (log Pow)	2.37	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	55°C (131°F) No data available	Autoignition temper Flammability or exp Lower: Upper:	

Solubility(ies):

Water: Insoluble (900mg/L, 20°C) Miscible: Ether, Alcohols Soluble: Many organic solvents **TCI AMERICA**

10. STABILITY AND REACTIVITY

Reactivity:Not Available.Chemical Stability:Stable under recommended storage conditions. (SPossibility of Hazardous Reactions:In use, may form flammable/explosive vapor-air mi Avoid excessive heat and light.Conditions to avoid:Avoid excessive heat and light.Incompatible materials:Oxidizing agentsHazardous Decomposition Products:No data available
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11. TOXICOLOGICAL INFORMATION

RTECS Number: RH1484000

Acute Toxicity: ihl-rat LC50:>2132 ppm/6H ipr-rat LC50:800 mg/kg orl-rat LD50:3089 mg/kg skn-rbt LD50:1337 mg/kg Skin corrosion/irritation: skn-rbt 500 mg/24H MLD 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: No data available NTP: No data available OSHA: No data available Reproductive toxicity: ipr-mus TDLo:1 g/kg(1-20D preg) Routes of Exposure: Inhalation, Eye contact, Ingestion, Skin contact. Symptoms related to exposure: Overexposure may result in serious illness or death. **Potential Health Effects:** May be harmful if inhaled or ingested. Overexposure may result in serious illness or death. No data available Target organ(s):

12. ECOLOGICAL INFORMATION

Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol)	No data available 37 No data available 2.37 460 19

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	CONSIDERATION	\$					
Disposal of prod		Recycle to proce rules and regula chemical inciner assistance but d regulatory comp	tions. You may be able to dissol ator equipped with an afterburn oes not replace these laws, nor liance according to the law. US in 40 CFR Parts 261. The prod	r's responsibility to comply with Federal, State and Local ve or mix material with a combustible solvent and burn i er and scrubber system. This section is intended to provi does compliance in accordance with this section ensure EPA guidelines for Identification and Listing of Hazardou uct should not be allowed to enter the environment, drain			
Disposal of container: Other considerations:		Dispose of as ur	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.				
14. TRANSPOF	RT INFORMATION						
D OT (US) UN number: JN1224	Proper Shipping Ketones, liquid, n		Class or Division: 3 Flammable liquid	Packing Group:			
	recorico, ilquid, il	.0.0.					
I ATA UN number: UN1224	Proper Shipping Ketones, liquid, n		Class or Division: 3 Flammable liquid	Packing Group: III			
MDG JN number: JN1224	Proper Shipping Ketones, liquid, n		Class or Division: 3 Flammable liquid	Packing Group: 			
EmS number:		F-E, S-D					
15. REGULATO	DRY INFORMATION	I					
Toxic Substance This product is ON US Federal Regu	Control Act (TSCA 8 the EPA Toxic Subs lations bus substance and R :	b.): tances Control Act (TS	SCA) inventory.				
Toxic Substance This product is ON US Federal Regu CERCLA Hazardo SARA 313 SARA 302	Control Act (TSCA 8 N the EPA Toxic Subsi lations pus substance and R	b.): tances Control Act (TS eportable Quantity: Not Listed	SCA) inventory.				
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Toxic Substance This product is ON US Federal Regu CERCLA Hazardo SARA 313 SARA 302 State Regulation State Right-to-Kr Massachu New Jerso Pennsylva	Control Act (TSCA 8 I the EPA Toxic Subsi- lations ous substance and R S S now usetts ey ania sition 65: n 2	b.): tances Control Act (TS eportable Quantity: Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed	HMIS Classification: Health: Flammability:	2 2 0			
Toxic Substance This product is ON US Federal Regu CERCLA Hazardo SARA 313 SARA 302 State Regulation State Right-to-Kr Massachu New Jerse Pennsylva California Propos Other Information NFPA Rating: Health: Flammability:	Control Act (TSCA 8 the EPA Toxic Subst lations bus substance and R s s now usetts ey ania sition 65: n 2 2 0	b.): tances Control Act (TS eportable Quantity: Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed	HMIS Classification: Health: Flammability:	2			

16. OTHER INFORMATION

Revision date: 02/18/2017 Revision number: 3

16. OTHER INFORMATION

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 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.