

Revision number: 3 Revision date: 10/17/2016

1. IDENTIFICATION

Product name: Product code: 2-Piperidineethanol H0736

Product use: Restrictions on use:

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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 4] Acute Toxicity - Inhalation [Category 4] Eye Damage/Irritation [Category 1] Skin Corrosion/Irritation [Category 1C]

Danger!

Signal word:

Hazard Statement(s):

Causes serious eye damage Causes severe skin burns and eye damage Harmful if swallowed Harmful in contact with skin Harmful if inhaled

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves and protective clothing. Avoid breathing dusts or mists. Use only outdoors or in a well-ventilated area. Do not breathe dusts or mists. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection. Wear face protection (full length face shield). If swallowed: Immediately call a poison center or doctor. Rinse mouth. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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)

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SAFETY DATA SHEET

For laboratory research purposes. Not for drug or household use.

Ch	nergency telephone number: nemical Emergencies: Cl America (8:00am - 5:00pm) PST
+1	-503-286-7624
Tra	ansportation Emergencies:
Ch	nemtrec 24-Hour
+1	-800-424-9300 (U.S.A.)
+1	-703-527-3887 (International)
Re	esponsible department:
TC	CI America
En	vironmental Health Safety and Security
+1	- 503-286-7624

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2. HAZARD(S) IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Substance
Components:	2-Piperidineethanol
Percent:	>96.0%(GC)
CAS Number:	1484-84-0
Iolecular Weight:	129.20
Chemical Formula:	C ₇ H ₁₅ NO
Synonyms:	2-(2-Hydroxyethyl)piperidine
4. FIRST-AID MEASURES	
Inhalation:	Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing difficult. 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.
Skin contact:	For severe burns, immediate medical attention is required. Immediately call a poison center or doctor. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minute Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Eye contact with vapors or substance may cause severe injury, burns, or death. Call emergency medical service. Movivitim 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 medica personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Harmful if swallowed. Do not induce vomiting with out medical advice. 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 there in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim war 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:	Pain. Redness. No data available
mmediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, becaus the inhaled material is harmful. WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is corrosive. For severe burns, immediate medical attention is required. If breathing has stopped, perform artificial respiration. Use first aid treatmer 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 or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the chem	lical
lazardous combustion products:	These products include: Carbon oxides Nitrogen oxides

Special precautions for fire-fighters:

Other specific hazards:

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.

Closed containers may explode from heat of a fire.

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

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Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. 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. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Prevent dust cloud. 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). 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.

Precautions for safe handling:	Avoid inhalation of vapor or mist. Manipulate under an adequate fume hood. Do not ingest. Avoid contact with skin and eyes. Avoid contact with skin. 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:	Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Store in refrigerator.
Storage incompatibilities:	Acids, Bases, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

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 equipm	ent
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Respiratory protection:Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.Hand protection:Nitrile gloves.Eye protection:Safety glasses.Skin and body protection:Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:

Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:

Partition coefficient: n-octanol/water (log Pow) Solid Crystal - Lump White - Slightly pale yellow No data available No data available

36°C (Freezing point) (97°F) 234°C (453°F) No data available No data available No data available No data available pH: Vapor pressure: Vapor density: Dynamic Viscosity:

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

No data available

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9. PHYSICAL AND CHEMIC Flash point:	118°C (244°F)	Autoignition temper	ature:	No data available
lammability (solid, gas):	No data available	Flammability or expl Lower:		le
		Upper:	No data availab	le
colubility(ies): Water: Soluble Soluble: Methanol				
0. STABILITY AND REAC	ΤΙVITY			
Reactivity: Chemical Stability: Possibility of Hazardous Reac Conditions to avoid: ncompatible materials: Hazardous Decomposition Pre	Air sensitive. Exposu Oxidizing agents	ensitive. vity has been reported. re to air. Heat sensitive.		
1. TOXICOLOGICAL INFO	DRMATION			
Acute Toxicity:				
lo data available				
kin corrosion/irritation: o data available				
erious eye damage/irritation lo data available				
tespiratory or skin sensitizati lo data available	on:			
Germ cell mutagenicity: lo data available				
arcinogenicity:				
o data available				
IARC: No data available	e NTP: N	No data available	OSHA:	No data available
eproductive toxicity: lo data available				
Coutes of Exposure: Symptoms related to exposure		ct, Ingestion, Skin contact.		
Verexposure may result in seri caling, reddening, or occasiona otential Health Effects:	ous illness or death. Skin contact n ally blistering. Eye contact can resu	It in corneal damage or blindnes	SS.	flammation; characterized by itching
lo specific information available arget organ(s):	e; skin and eye contact may result in No data available	n irriatation. May be harmful if i	innaled or ingeste	ða.
2. ECOLOGICAL INFORM	IATION			
Ecotoxicity				
Fish: Crustacea:	No data available No data available			

Fish:	No data available
Crustacea:	No data available
Algae:	No data available
-	
Persistence and degradability:	No data available
Bioaccumulative potential (BCF):	No data available
• • • •	
Mobillity in soil:	No data available
Partition coefficient:	No data available
n-octanol/water (log Pow)	
Soil adsorption (Koc):	No data available

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Henry's Law:	AL INFORMATION				
constant (PaM ³ /m	ol)	No data availabl	e		
	CONSIDERATIONS		and if possible. It is the generate	la reanancibility to comply with Endered. State	
Disposal of produ	ct:	rules and regula	tions. You may be able to dissol	's responsibility to comply with Federal, State /e or mix material with a combustible solvent	and Local
		chemical inciner	ator equipped with an afterburne	r and scrubber system. This section is intend	ded to provide
		assistance but d	oes not replace these laws, nor	does compliance in accordance with this sec	tion ensure
				EPA guidelines for Identification and Listing c act should not be allowed to enter the enviror	
		water ways, or tl	ne soil.		
Disposal of contai Other consideration		Dispose of as ur	nused product. Do not re-use em	pty containers. hen disposing of the substance.	
	0113.	Observe all rede	ia, state and local regulations w	her disposing of the substance.	
14. TRANSPOR	T INFORMATION				
DOT (US) UN number:	Proper Shipping	Name:	Class or Division:	Packing Group:	
JN1759	Nitriles, solid, toxi		8 Corrosive material		
ATA .	_				
JN number: JN1759	Proper Shipping Corrosive solid, n		Class or Division: 8 Corrosive material	Packing Group:	
MDG					
JN number:	Proper Shipping		Class or Division:	Packing Group:	
JN1759	Corrosive solid, n	.0.S.	8 Corrosive material	III	
mS number:		F-A, S-B			
	RY INFORMATION				
15. REGULATO		I			
15. REGULATO	Control Act (TSCA 8	/ b.):			
15. REGULATO	Control Act (TSCA 8	I	SCA) inventory.		
15. REGULATO	Control Act (TSCA 8 the EPA Toxic Subst	/ b.):	SCA) inventory.		
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15. REGULATO Foxic Substance (This product is ON US Federal Regula CERCLA Hazardo SARA 313:	Control Act (TSCA 8 the EPA Toxic Subst ations us substance and Re	/ b.): tances Control Act (TS eportable Quantity: Not Listed	SCA) inventory.		
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15. REGULATO Toxic Substance (This product is ON US Federal Regula CERCLA Hazardo SARA 313: SARA 302: State Regulations	Control Act (TSCA 8 the EPA Toxic Subst ations us substance and Re	/ b.): tances Control Act (TS eportable Quantity: Not Listed	SCA) inventory.		
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15. REGULATO Toxic Substance (This product is ON JS Federal Regula CERCLA Hazardo SARA 313: SARA 302: State Regulations State Right-to-Kno Massachus New Jerse Pennsylva California Proposi Other Information	Control Act (TSCA 8 the EPA Toxic Subst ations us substance and R bw setts y nia ition 65:	<i>I</i> b.): tances Control Act (TS eportable Quantity: Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed	HMIS Classification: Health: Flammability:		
15. REGULATO Toxic Substance (This product is ON JS Federal Regula CERCLA Hazardo SARA 313: SARA 302: State Regulations State Right-to-Kno Massachus New Jerse Pennsylva California Proposi Other Information NFPA Rating: Health: Flammability: Instability:	Control Act (TSCA 8 the EPA Toxic Subst ations us substance and Ro bw setts y nia ition 65:	<i>I</i> b.): tances Control Act (TS eportable Quantity: Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed	HMIS Classification: Health: Flammability:	1	
15. REGULATO Toxic Substance O This product is ON US Federal Regula CERCLA Hazardo SARA 313: SARA 302: State Regulations State Right-to-Kno Massachus New Jerse Pennsylva California Proposi Other Information NFPA Rating: Health: Flammability: Instability:	Control Act (TSCA 8 the EPA Toxic Subst ations us substance and Ro bw setts y nia ition 65:	b.): tances Control Act (TS eportable Quantity: Not Listed	HMIS Classification: Health: Flammability: Physical:	1	
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16. OTHER INFORMATION

Revision date: 10/17/2016 Revision number: 3

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 gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.