

Revision number: 2 Revision date: 10/06/2014

1. IDENTIFICATION

(+)-2,2'-Methylen	ebis[(3aR,8aS)-3a,8a-dihydro-8H-indeno[1,2-d]oxazole]
M1401	

TCI AMERICA

SAFETY DATA SHEET

Product use: Restrictions on use:

Product name: Product code:

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

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:	Eye Damage/Irritation [Category 2B]
Signal word:	Warning!
Hazard Statement(s):	Causes eye irritation
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]	Wash hands and face thoroughly after handling. 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. None None

Hazards not otherwise classified: [HNOC] Causes mild skin irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components:	Substance (+)-2,2'-Methylenebis[(3aR,8aS)-3a,8a-dihydro-8H-indeno[1,2-d]oxazole]
Percent:	>98.0%(HPLC)(N)
CAS Number:	180186-94-1
Molecular Weight:	330.39
Chemical Formula:	$C_{21}H_{18}N_2O_2$

4. FIRST-AID MEASURES

Inhalation:

Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim 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 and take precautions to protect themselves.

n occurs get medical advice/attention. Remove and wash contaminated clothing before re- of contact with substance, immediately flush skin with running water for at least 20 minutes. matically and supportively. Ensure that medical personnel are aware of the material(s) take precautions to protect themselves. Y flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and ontact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects o ubstance may be delayed. Ensure that medical personnel are aware of the material(s) take precautions to protect themselves. e vomiting with out medical advice. If swallowed, seek medical advice immediately and show or label. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place ecovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim et. Treat symptomatically and supportively. Ensure that medical personnel are aware of the volved and take precautions to protect themselves.
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as stopped, perform artificial respiration. Use first aid treatment according to the nature of the that medical personnel are aware of the material(s) involved and take precautions to protect
CO_2 , sand, earth, water spray or regular foam Consult with local fire authorities before ge scale fire fighting operations.
ts include: Carbon oxides Nitrogen oxides
iners may explode from heat of a fire.

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. 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:**

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: Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. 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.

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.

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:	Solid Crystal - Powder White - Very pale yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature:	225°C (437°F) No data available No data available	pH: Vapor pressure: Vapor density:	No data available No data available No data available
Relative density: Kinematic Viscosity:	No data available No data available	Dynamic Viscosity:	No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temper Flammability or exp Lower: Upper:	
Solubility(ies):			

Soluble: Methylene chloride

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

(+)-2,2'-Methylenebis[(3aR,8aS)-3a,8a-dih indeno[1,2-d]oxazole]	nydro-8H- TCI AMERICA	Page 4 of 5
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: No data available	NTP: No data available OSHA: No data available	
Reproductive toxicity: No data available		
Routes of Exposure: Symptoms related to exposure: Eye contact may result in redness or pain. S Potential Health Effects:	Inhalation, Eye contact, Ingestion, Skin contact. Skin contact may result in redness, pain or dry skin.	
Skin and eye contact may result in irritation Target organ(s) :	No data available	
12. ECOLOGICAL INFORMATION		
Ecotoxicity		
Fish: Crustacea:	No data available No data available	
Algae:	No data available	
Persistence and degradability: Bioaccumulative potential (BCF):	No data available No data available No data available	
Mobillity in soil: Partition coefficient:	No data available	
n-octanol/water (log P₀w) Soil adsorption (Koc):	No data available	
Henry's Law: constant (PaM³/mol)	No data available	
13. DISPOSAL CONSIDERATIONS	Descusie to present if a secilities the management of a second with the second with Federal Cost	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State rules and regulations. You may be able to dissolve or mix material with a combustible solvent chemical incinerator equipped with an afterburner and scrubber system. This section is intend assistance but does not replace these laws, nor does compliance in accordance with this sec regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the enviror water ways, or the soil.	and burn in a led to provide tion ensure of Hazardous
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.	
14. TRANSPORT INFORMATION		
DOT (US)	Non-hazardous for transportation.	
ΙΑΤΑ	Non-hazardous for transportation.	
IMDG	Non-hazardous for transportation.	

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313:	Not Listed
SARA 302:	Not Listed

State Regulations

State Right-to-Know

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

Other Information

NFPA Rating:

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Health:	0	Health:	0
Flammability:	0	Flammability:	0
Instability:	0	Physical:	0
International Inve	ntories		
WHMIS hazard class:		D2B: Materials causing other toxic effects. (To	xic)

16. OTHER INFORMATION

Revision date: 10/06/2014

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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.

HMIS Classification: