



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
*	Flammable material; avoid heat and sources of ignition. The health risks of this compound have not been fully determined Exposure may cause irritation of the skin, eyes, and respiratory system.	

Section I.	Chemical Product and Company Id	lentification	
Chemical Name	2,2-Dimethylhexane		
Catalog Number	D1224	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Not available.		Portland OR 1-800-423-8616
Chemical Formula	CH ₃ (CH ₂) ₃ C(CH ₃) ₃		
CAS Number	590-73-8	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.)
		Call	(703) 527-3887 (International)

Section II. Composition a	nd Informa	tion on In	gredients	
Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
2,2-Dimethylhexane	590-73-8	Min. 98.0 (GC)	Not available.	Not available.
Section III. Hazards Identification				

Section III.	Hazards Identification
Acute Health Effects	No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITYNot available. There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with runing water for at least 15 minutes. keeping eyelids open. COLD water may be used. DO NOT use an eye oitment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper eyelids. Seek medical attention. Treat symptomatically and supportively.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thorough wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.
Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. Seek medical attention. Treat symptomatically and supportively.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

Section V. F	ire and Explosion Da	ata	
Flammability	Flammable.	Auto-Ignition	Not available.
Flash Points	-3°C (26.6°F).	Flammable Limits	Not available.
Combustion Products	These products are toxic carbo	on oxides (CO, CO ₂).	
Fire Hazards	Reactive with strong oxidizers. Vapors may travel to source of ignition and flash back. Closed containers may explode from heat of a fire. Highly flammable in presence of open flames nad sparks, of heat.		
Explosion Hazards	Risks of explosion of the produ	uct in presence of mechanical impact: Not av uct in presence of static discharge: Not availa ailable regarding the risks of explosion.	
Fire Fighting Media and Instructions			

Continued on Next Page

Emergency phone number (800) 424-9300

D1224 2,2-Dimethylhexane Page 2

Flammable liquid.

SMALL FIRE: Use DRY chemicals, CO2, alcohol foam or water spray

LARGE FIRE: Use alcohol foam, water spray or fog.

Section VI. Accidental Release Measures

Spill Cleanup Instructions Flammable liquid.

Keep away from heat and sources of ignition. Mechanical exhaust required. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for

assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information FLAMMABLE. Do not breathe gas, fumes, vapor or spray.

Always store away from incompatible compounds such as oxidizing agents.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

Personal Protection

Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.



Exposure Limits

Not available.

Section IX. Pl	hysical and Chemical	Properties		
Physical state @ 20°C	Liquid.	Solubility	Not available.	
Specific Gravity	0.693			
Molecular Weight	114.23	Partition Coefficient	Not available.	
Boiling Point	107°C (224.6°F)	Vapor Pressure	1.22 PSI @ 37.7°C	
Melting Point	Not available.	Vapor Density	Not available.	
Refractive Index	Not available.	Volatility	Not available.	
Critical Temperature	Not available.	Odor	Not available.	
Viscosity	Not available.		Not available.	

Section X. Stability and Reactivity Data

Stability This material is stable if stored under proper conditions. (See Section VII for instructions)

Conditions of Instability Avoid excessive heat and light.

Incompatibilities Reactive with strong oxidizing agents.

Section XI. Toxicological Information

RTECS Number Not available.

Routes of Exposure Eye contact. Ingestion. Inhalation.

Toxicity Data Not available.

Chronic Toxic Effects CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITYNot available.

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not

known to aggravate existing medical conditions.

Acute Toxic Effects No specific information is available in our data base regarding the toxic effects of this material for humans. However,

exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling

this compound.

Emergency phone number (800) 424-9300

Section XII. **Ecological Information**

Ecotoxicity

Not available.

Environmental Fate

Not available.

Section XIII. **Disposal Considerations**

Waste Disposal

Recycle to process, if possible. Consult your local or regional authorities. 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. Observe all federal, state, and local regulations when disposing of the substance

Section XIV. Transport Information

DOT Classification

DOT CLASS 3: Flammable liquid.

PIN Number

UN3295

Proper Shipping Name

Hydrocarbons, liquid, n.o.s.

Packing Group (PG)

DOT Pictograms



Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory

(EPA)

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 an MSDS sheet.

WHMIS Classification

WHMIS CLASS B-2: Flammable liquid with a flash point lower than 35°C (100°F).

(Canada) EINECS Number (EEC)

209-689-4

EEC Risk Statements

R11- Highly flammable.

R18- In use, may form flammable/explosive vapor-air mixture.

Japanese Regulatory Data

Not available.

Section XVI. Other Information

Version 1.0

Validated on 12/14/1999.

Printed 2/7/2005.

Notice to Reader

TCI laboratory 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 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 MSDS sheets 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 MSDS sheets 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, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations

Printed 2/7/2005