SAFETY DATA SHEET



1. Identification

Product identifier 1,1-Dimethylhydrazine

Other means of identification

Item N-10128

Recommended use For Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chem Service, Inc.
Address 660 Tower Lane

West Chester, PA 19380

United States

Telephone Toll Free 800-452-9994

Direct 610-692-3026

Website www.chemservice.com
E-mail info@chemservice.com

Emergency phone number Chemtrec US 800-424-9300

Chemtrec outside US +1 703-527-3887

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 2
	Acute toxicity, inhalation	Category 2
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Carcinogenicity	Category 1B
Environmental hazards	Hazardous to the aquatic environment, acute	Category 2

IIazaiu

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Dange

Hazard statement Highly flammable liquid and vapor. Toxic if swallowed. Fatal in contact with skin. Causes severe

skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. May cause cancer.

Category 2

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapor. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or

smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.

Material name: 1,1-Dimethylhydrazine

SDS US 1 / 11 Response If swallowed: Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce

vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Take off immediately all contaminated clothing and wash it before reuse. In case of

fire: Use appropriate media to extinguish. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information Not applicable.

3. Composition/information on ingredients

Substances

Ingestion

Chemical name Common name and synonyms		CAS number	%
1,1-Dimethylhydrazine		57-14-7	100

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of

a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important Burning pain an symptoms/effects, acute and include stinging

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated.

5. Fire-fighting measures

Suitable extinguishing media Alcoh

Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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Fire fighting equipment/instructions Specific methods General fire hazards In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material Type Value PFI 1,1-Dimethylhydrazine 1 mg/m3 (CAS 57-14-7) 0.5 ppm

US. ACGIH Threshold Limit Values

Material Value Type TWA 1.1-Dimethylhydrazine 0.01 ppm

(CAS 57-14-7)

US. NIOSH: Pocket Guide to Chemical Hazards Material Value Type

0.15 mg/m3 1,1-Dimethylhydrazine Ceiling (CAS 57-14-7) 0.06 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

1,1-Dimethylhydrazine (CAS 57-14-7) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

1,1-Dimethylhydrazine (CAS 57-14-7) Skin designation applies.

US - Tennessee OELs: Skin designation

1,1-Dimethylhydrazine (CAS 57-14-7) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

1,1-Dimethylhydrazine (CAS 57-14-7) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

1,1-Dimethylhydrazine (CAS 57-14-7) Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear eye/face protection. Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Wear appropriate chemical resistant gloves. Hand protection Other Wear appropriate chemical resistant clothing.

Wear positive pressure self-contained breathing apparatus (SCBA). Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get this material on clothing. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and chemical properties

Appearance

Liquid. **Physical state Form** Liquid Color Colorless Not available. Odor Not available. **Odor threshold** pН Not available.

Material name: 1,1-Dimethylhydrazine

Melting point/freezing point -72.4 °F (-58 °C)

Initial boiling point and boiling 147.02 °F (63.9 °C) 101.325 kPa

range

5.0 °F (-15.0 °C) Closed Cup Flash point

Evaporation rate Not available. Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

2

Flammability limit - upper

95

(%)

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

20.93 kPa at 25 °C Vapor pressure

1.94 Vapor density

Not available. Relative density

Solubility(ies)

Solubility (water) Miscible Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature 480.2 °F (249 °C) **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

0.7819 g/cm3 estimated **Density**

Dynamic viscosity 0.49 mPa.s 77 °F (25 °C) Dynamic viscosity

temperature

Flammable IB estimated Flammability class 0.629236 mm²/s estimated Kinematic viscosity

C2-H8-N2 Molecular formula Molecular weight 60.1 g/mol Percent volatile 100 %

0.78 at 25 °C Specific gravity 0.79 at 22 °C

VOC (Weight %) 100 %

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Fatal if inhaled. Inhalation

Fatal in contact with skin. Causes severe skin burns. Skin contact

Eve contact Causes serious eye damage. **Ingestion** Toxic if swallowed. Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity Fatal if inhaled. Fatal in contact with skin. Toxic if swallowed. Expected to be a low hazard for

usual industrial or commercial handling by trained personnel.

Product	Species	Test Results	
,1-Dimethylhydrazine (CA	AS 57-14-7)		
<u>Acute</u>			
Dermal			
LD50	Dog	1200 mg/kg	
	Guinea pig	1329 mg/kg	
	Rabbit	156 mg/kg	
Inhalation			
LC50	Dog	22300 mg/l, 5 Minutes	
		3850 mg/l, 15 Minutes	
		981 mg/l, 1 Hours	
	Hamster	392 mg/l, 4 Hours	
	Mouse	172 mg/l, 4 Hours	
	Rat	24500 mg/l, 5 Minutes	
		8230 mg/l, 15 Minutes	
		4010 mg/l, 30 Minutes	
		1410 mg/l, 1 Hours	
		252 mg/l, 4 Hours	
Oral			
LD50	Mouse	265 mg/kg	
	Rat	122 mg/kg	
Other			
LD50	Cat	30 mg/kg	
	Dog	60 mg/kg	
	Mouse	113 mg/kg	
	Rat	104 mg/kg	

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

1,1-Dimethylhydrazine (CAS 57-14-7) 2B Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

1,1-Dimethylhydrazine (CAS 57-14-7) Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Material name: 1,1-Dimethylhydrazine

SDS US

Specific target organ toxicity -

single exposure

Not classified.

omgre empresare

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

EcotoxicityToxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product Species Test Results

1,1-Dimethylhydrazine (CAS 57-14-7)

Aquatic

Fish LC50 Channel catfish (Ictalurus punctatus) 5.18 - 18.73 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

U098

disposal company.

US RCRA Hazardous Waste U List: Reference

1,1-Dimethylhydrazine (CAS 57-14-7)

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1163

UN proper shipping name

Transport hazard class(es)

Dimethylhydrazine, unsymmetrical, MARINE POLLUTANT

 Class
 6.1(PGI, II)

 Subsidiary risk
 3, 8

 Label(s)
 6.1, 3, 8

 Packing group
 I

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 2, B7, B9, B14, B32, T20, TP2, TP13, TP38, TP45

Packaging exceptions None
Packaging non bulk 227
Packaging bulk 244

IATA

UN number UN1163

UN proper shipping name Dimethylhydrazine, unsymmetrical

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^{*} Estimates for product may be based on additional component data not shown.

Transport hazard class(es)

 $\begin{array}{ll} \text{Class} & \text{6.1(PGIII)} \\ \text{Subsidiary risk} & \text{3, 8} \end{array}$

Packing group Not applicable.

Environmental hazards No. **ERG Code** 6CH

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Forbidden Forbidden

IMDG

UN number UN1163

UN proper shipping name DIMETHYLHYDRAZINE, UNSYMMETRICAL

Transport hazard class(es)

Cargo aircraft only

Class 6.1(PGI, II)
Subsidiary risk 3, 8
Packing group I
Environmental hazards

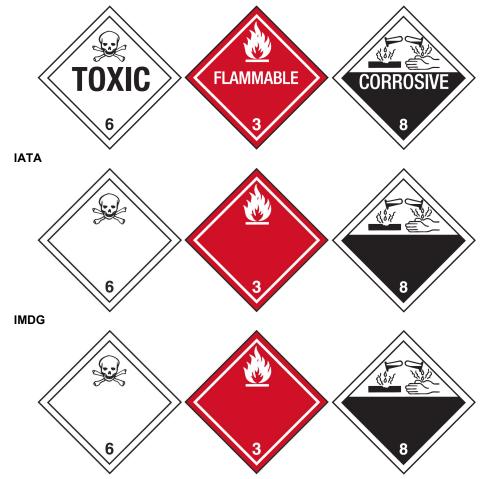
Marine pollutant Yes EmS F-E, S-C

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and the IBC Code

DOT



Marine pollutant



General information DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

1,1-Dimethylhydrazine (CAS 57-14-7)

Listed.

SARA 304 Emergency release notification

1,1-Dimethylhydrazine (CAS 57-14-7)

10 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value	
1 1-Dimethylhydrazin	57-14-7	10	1000 lbs			

1,1-Dimethylhydrazin e 57-14-7

10

1000 lb:

•

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
1,1-Dimethylhydrazine	57-14-7	100	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

1,1-Dimethylhydrazine (CAS 57-14-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

1,1-Dimethylhydrazine (CAS 57-14-7)

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US - New Jersey RTK - Substances: Listed substance

1,1-Dimethylhydrazine (CAS 57-14-7)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

1,1-Dimethylhydrazine (CAS 57-14-7)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

Material name: 1,1-Dimethylhydrazine

SDS US

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US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

1,1-Dimethylhydrazine (CAS 57-14-7)

US. Massachusetts RTK - Substance List

1,1-Dimethylhydrazine (CAS 57-14-7)

US. New Jersey Worker and Community Right-to-Know Act

1,1-Dimethylhydrazine (CAS 57-14-7)

US. Pennsylvania RTK - Hazardous Substances

1,1-Dimethylhydrazine (CAS 57-14-7)

US. Pennsylvania Worker and Community Right-to-Know Law

1,1-Dimethylhydrazine (CAS 57-14-7)

US. Rhode Island RTK

1,1-Dimethylhydrazine (CAS 57-14-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,1-Dimethylhydrazine (CAS 57-14-7) Listed: October 1, 1989

International Inventories

Country(a) or region

Country(s) or region	inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

16. Other information, including date of preparation or last revision

Issue date 11-19-2014 **Revision date** 11-25-2015

Version # 02

Material name: 1,1-Dimethylhydrazine

On inventory (vec/ne)*

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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