

## SAFETY DATA SHEET

Preparation Date: 08/07/2019

Revision date 08/07/2019

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** D1454  
**Product Name:** 2,2-Dimethyl-1-propanol, Neopentyl Alcohol

#### Other means of identification

**Synonyms:** 1-Propanol, 2,2-dimethyl-  
 2,2-Dimethyl-1-propanol  
 2,2-Dimethylpropyl alcohol  
 Neoamyl alcohol  
 Neopentanol  
 tert-Butylcarbinol  
 2,2-Dimethylpropanol

**CAS #:** 75-84-3  
**RTECS #** Not available  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Tom Tyner (USA - West Coast)  
**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Flammable solids	Category 2
------------------	------------

#### Label elements

##### **Warning**

Flammable solid



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Ground container and receiving equipment  
Use explosion-proof equipment  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight-%
2,2-Dimethyl-1-propanol	75-84-3	100

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause eye/skin irritation  
May cause irritation of respiratory tract  
Health injuries are not known or expected under normal use

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol-resistant foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

**Specific hazards** Flammable solid. May be ignited by heat, sparks or flames. Keep away from combustible materials (wood, paper, oil, clothing, etc.).

**Special Protective Actions for Firefighters**

**Specific Methods:** For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Technical Measures/Precautions:**

**Product code:** D1454

**Product name:**  
2,2-Dimethyl-1-propanol, Neopentyl  
Alcohol

**Page** 3 / 11

Provide sufficient air exchange and/or exhaust in work rooms. All equipment used when handling the product must be grounded. Keep away from incompatible materials. Remove all sources of ignition.

**Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Avoid shock and friction. Keep away from heat and sources of ignition. Use only explosion-proof equipment. Do not use metal spatulas with removing or weighing out material. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Heat sensitive. Keep refrigerated. Store at 2-8 deg. C. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials.

**Incompatible Materials:**

Strong oxidizing agents

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

**United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
2,2-Dimethyl-1-propanol	75-84-3	None	None	None	None

**Canada**

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
2,2-Dimethyl-1-propanol	75-84-3	None	None	None	None

**Australia and Mexico**

Component	CAS No	Australia	Mexico
2,2-Dimethyl-1-propanol	75-84-3	None	None

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

**Skin and body protection:** Long sleeved clothing

Chemical resistant apron  
Gloves

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Solid	<b>Appearance:</b> No information available.	<b>Color:</b> Almost white. White.
<b>Odor:</b> No information available.	<b>Taste</b> No information available.	<b>Formula</b> C5H12O
<b>Molecular/Formula weight (g/mole):</b> 88.15	<b>Flammability (solid, gas)</b> no data available	<b>Flashpoint (°C/°F):</b> 36-37°C/ 97-99°F
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> 225°C/437°F	<b>Lower Explosion Limit (%):</b> 1.7
<b>Upper Explosion Limit (%):</b> 9.7	<b>Melting point/range(°C/°F):</b> 52-56°C/ 126-133°F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 111-114°C/ 232-237°F	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> 0.81
<b>Specific gravity:</b> No information available	<b>pH</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> 2.1
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 3.0	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> 1.31	<b>Viscosity:</b> No information available
<b>Miscibility:</b> Miscible with Ether Miscible with alcohol	<b>Solubility:</b> Solubility in Water: 40 g/l at 20 deg. C	

## 10. STABILITY AND REACTIVITY

**Reactivity**  
No information available

### Chemical stability

**Stability:** Heat sensitive. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Product code:** D1454

**Product name:**  
2,2-Dimethyl-1-propanol, Neopentyl  
Alcohol

**Page** 5 / 11

**Incompatible Materials:** Strong oxidizing agents

**Hazardous decomposition products:** Carbon oxides.

**Other Information**  
**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Skin. Gastrointestinal tract. Inhalation. Ingestion.

### Acute Toxicity

### Component Information

2,2-Dimethyl-1-propanol	
CAS No	75-84-3

**LD50/oral/rat** = No information available  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =  
**Value - Acute Toxicity** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox** = No information available

**LD50/dermal/rabbit**  
**Value - Acute Toxicity** = No information available

**LD50/dermal/rat**  
**VALUE - Acute Tox** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available

**Product code:** D1454

**Product name:**  
2,2-Dimethyl-1-propanol, Neopentyl  
Alcohol

**Page** 6 / 11

VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** May cause skin irritation.  
**Eye Contact:** May cause eye irritation.  
**Inhalation** May cause irritation of respiratory tract.  
**Ingestion** May cause digestive (gastrointestinal) tract irritation. Health injuries are not known or expected under normal use.  
**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
2,2-Dimethyl-1-propanol	75-84-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available  
**Bioaccumulative potential:** No information available.  
**Mobility in soil** No information available  
**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2,2-Dimethyl-1-propanol	75-84-3	None	None	None	None

### 14. TRANSPORT INFORMATION

**DOT**

**UN-No:** UN1325  
**Proper Shipping Name:** Flammable solids, organic, n.o.s.  
**Hazard Class** 4.1  
**Subsidiary Class** No information available  
**Packing group:** II  
**Emergency Response Guide Number** 133  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** A1, IB8, IP2, IP4, T3, TP33  
**Symbol(s):** No information available  
**Description:** UN1325, Flammable solids, organic, n.o.s., 4.1, II

**TDG (Canada)**

**UN-No:** UN1325  
**Proper Shipping Name:** Flammable solid, organic, n.o.s.  
**Hazard Class** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No Information available  
**Description:** UN1325, Flammable solid, organic, n.o.s., 4.1, II

**ADR**

**UN Number** UN1325  
**Proper Shipping Name:** Flammable solid, organic, n.o.s.  
**Transport hazard class(es)** 4.1  
**Packing group** II  
**Subsidiary Risk:** No information available  
**Special Provisions** 274  
**Description:** UN1325, Flammable solid, organic, n.o.s., 4.1, II



**IMDG**

**UN-No:** UN1325  
**Proper Shipping Name:** Flammable solids, organic, n.o.s.  
**Hazard Class:** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No information available  
**EMS:** F-A  
**Special Provisions** 274  
**Description** UN1325, Flammable solid, organic, n.o.s. (2,2-DIMETHYL-1-PROPANOL), 4.1, II

**RID**

**UN Number** UN1325  
**Proper Shipping Name:** Flammable solid, organic, n.o.s.  
**Transport hazard class(es)** 4.1  
**Subsidiary Risk:** No information available  
**Packing group** II  
**Special Provisions** 274  
**Description:** UN1325, Flammable solid, organic, n.o.s., 4.1, II

**ICAO (air)**

**UN-No:** UN1325  
**Proper Shipping Name:** Flammable solid, organic, n.o.s.  
**Hazard Class** 4.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN1325, Flammable solid, organic, n.o.s., 4.1, II  
**Special Provisions** A3

**IATA**

**UN Number** UN1325  
**Proper Shipping Name:** Flammable solid, organic, n.o.s.  
**Transport hazard class(es)** 4.1  
**Subsidiary Risk:** No information available  
**Packing group** II  
**Precautionary Statements - Response** 3L  
**Special Provisions** No information available  
**Description:** UN1325, Flammable solid, organic, n.o.s., 4.1, II

**15. REGULATORY INFORMATION****International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
2,2-Dimethyl-1-propanol	75-84-3	PresentACTIVE	Present KE-11826	Present	Present (2)-217	Present	Present	Present 200-907-3

**U.S. Regulations***2,2-Dimethyl-1-propanol*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 4177  
**Pennsylvania RTK:** Present

## California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
2,2-Dimethyl-1-propanol	75-84-3	Not Listed	Not Listed	Not Listed	Not Listed

## CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
2,2-Dimethyl-1-propanol	75-84-3	None	None	None	None	None

## U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
2,2-Dimethyl-1-propanol	75-84-3	Not Applicable	Not Applicable

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

## DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
2,2-Dimethyl-1-propanol	75-84-3	Not Listed	Present

Component	CAS No	CEPA Schedule I - Toxic Substances
2,2-Dimethyl-1-propanol	75-84-3	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
2,2-Dimethyl-1-propanol	75-84-3	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
2,2-Dimethyl-1-propanol	75-84-3	

Product code: D1454

Product name:  
2,2-Dimethyl-1-propanol, Neopentyl  
Alcohol

Page 10 / 11

EU - CLP (1272/2008)

**R-phrase(s)**

R10 - Flammable

**S -phrase(s)**

S 7 - Keep container tightly closed.

S15 - Keep away from heat

S16 - Keep away from sources of ignition - No smoking

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
2,2-Dimethyl-1-propanol	75-84-3		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Flammable

**16. OTHER INFORMATION**

**Preparation Date:** 08/07/2019  
**Revision date** 08/07/2019  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**