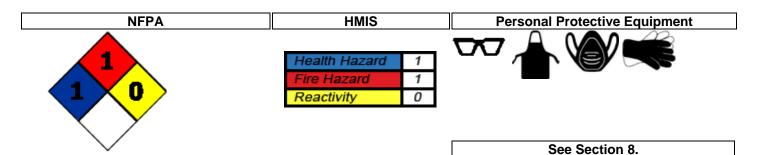




MATERIAL SAFETY DATA SHEET



1. CHEMICAL PRODUCT A	ND COMPANY IDENTIFICATION				
Product code:	T1355				
Product Name:	N,2,3-Trimethyl-2-isopropylbutamide				
Chemical Name:	Trimethyl isopropyl butanamide				
Synonyms:	2-Isopropyl-N,2,3-trimethylbutanamide;				
	Butanamide, N,2,3-trimethyl-2-(1-methylethyl)-;				
	Methyl diisopropyl propionamide (INCI name);				
	N,2,3-Trimethyl-2-(1-methylethyl)butanamide				
Recommended use:	o information available.				
CAS #:	51115-67-4				
Formula:	C10-H21-N-O				
RTECS #	Not available				
CI#:	ot available				
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.				
	14422 South San Pedro St.				
	Gardena, CA 90248				
	(310) 516-8000				
Emergency Telephone Number:	CHEMTREC: 1-800-424-9300				
Contact Person:	Martin LaBenz (West Coast)				
Contact Person:	Chris Terpak (East Coast)				

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW May cause skin and eye irritation. May cause irritation of respiratory tract.				
Odor:	Physical state:	Appearance:	Color:	
Mint-like	Solid.	Powder	White.	

OSHA Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 1910.1200)

Product code: T1355 Product name: N,2,3-Trimethyl-2-1/10 isopropylbutamide

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Potential Health Effects:

Skin Contact:

May cause skin irritation.

Eye Contact:

May cause eye irritation.

Inhalation:

May cause irritation of respiratory tract.

Ingestion:

Expected to be a low hazard. May cause digestive (gastrointestinal) tract irritation.

Chronic Potential Health Effects:

Target Organs: No information available

Carcinogen Status: No information available

Mutagenic Effects: No information available

Teratogenic Effects: No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
N,2,3-Trimethyl-2-isopropylbutamide	51115-67-4	100

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes. Get medical attention if irritation develops.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If

symptoms persist, call a physician.

Product code: T1355 Product name: N,2,3-Trimethyl-2- 2 / 10

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath,

give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F):	>110 °C/230 °F
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Tested according to: Not available

Lower Explosion Limit (%):	No information available
Upper Explosion Limit (%):	No information available

Autoignition Temperature (°C/°F): No information available

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide; Nitrogen oxides

Specific hazards: May be combustible at high temperatures.

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

Specific Methods: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

Environmental Precautions:

No information available..

Methods for Cleaning Up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Product code: T1355 Product name: N,2,3-Trimethyl-2- 3 / 10

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Products:

Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Personal Protective Equipment

Eye protection: Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

National occupational exposure limits

United States

U.S Occupational Exposure Limits: Not determined

Canada

Canada Occupational Exposure Limits: Not determined

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: T1355 Product name: N,2,3-Trimethyl-2- 4/10

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Appearance: Powder White. Solid.

Odor: **Taste** Molecular/Formula weight:

Mint-like. No information available 171.28

Flash point (°C): Lower Explosion Limit (%): **Upper Explosion Limit (%):**

No information available No information available >110

Autoignition Temperature (°C/°F): pH: Boiling point/range(°C/°F):

No information available No information available No information available

Melting point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity:

60-64 °C/140-147.2 °F No information available No information available

Density (g/cm3): **Bulk density:** Vapor pressure @ 20°C (kPa):

No information available No information available No information available

VOC content (g/L): **Evaporation rate:** Vapor density: No information available No information available No information available

Odor threshold (ppm): Partition coefficient Miscibility:

No information available No information available (n-octanol/water):

No information available

Very slightly soluble in water

Solubility:

Soluble in organic solvents

10. STABILITY AND REACTIVITY

Stable at normal conditions Stability:

Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition source

is a potential dust explosion hazard.

Materials to avoid: Strong oxidising agents.

Hazardous decomposition

products:

Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

Possibility of Hazardous

Reactions:

No information available

Polymerization: Hazardous polymerisation does not occur

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

N,2,3-Trimethyl-2-isopropylbutamide - 51115-67-4

Product code: T1355 5/10 Product name: N,2,3-Trimethyl-2-

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = Not determined
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 information No information available

Product Information

LC50/inhalation/rat = No information available
LC50/Inhalation/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = Not information available
LD50/oral/rat = No information available
LD50/oral/mouse = No information available

Local Effects

Skin irritation: May cause skin irritation.

Eye irritation: Contact with eyes may cause irritation.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May cause digestive (gastointestinal) tract irritation.

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity No information available

Carcinogenic effects: Not considered carcinogenic

Mutagenic Effects: No information available

Reproductive Effects: No information available

Teratogenic Effects: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available

Ecotoxicity effects: No data available

Aquatic toxicity: No information available

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Product code: T1355 Product name: N,2,3-Trimethyl-2-

isopropylbutamide

6/10

13. DISPOSAL CONSIDERATIONS

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

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
N,2,3-Trimethyl-2-isopropylbutamide	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated

Proper Shipping Name: No information available Hazard Class: No information available

Packing Group: None

Subsidiary Risk:Not applicableMarine PollutantNo data available

ERG No: No information available DOT RQ (lbs): No information available

TDG (Canada)

Proper Shipping Name: No information available

UN-No: Not regulated

Hazard Class:No information availablePacking Group:No information availableSubsidiary Risk:No information availableDescription:No information available

ADR

Proper Shipping Name: No information available

UN-No: Not regulated

Hazard Class:
Packing Group:
No information available

IMO / IMDG

Proper Shipping Name: No information available

UN-No: Not regulated

Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

Maximum Quantity: No information available

RID

Proper Shipping Name: No information available

Product code: T1355 Product name: N,2,3-Trimethyl-2- 7/10

UN-No: Not regulated

Hazard Class:No information availablePacking Group:No information availableSubsidiary Risk:No information availableClassification Code:No information availableDescription:No information available

ICAO

UN-No: Not regulated

Hazard Class:
Proper Shipping Name:
Packing Group:
Subsidiary Risk:
Description:
No information available
No information available
No information available
No information available

IATA

Proper Shipping Name: No information available

UN-No: Not regulated

Hazard Class:No information availablePacking Group:No information availableSubsidiary Risk:No information availableDescription:No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
N,2,3-Trimethyl-2-isopropylbutamide	Not Listed	Not present	Not present	Not present	Present	Not present	256-974-4

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcment 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)

Components	Carcinogen			Female Reproductive Toxicity:
			TOXICITY	TOXICITY.
N,2,3-Trimethyl-2-isopropylbutamide	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
N,2,3-Trimethyl-2-	None	None	None	None	None
isopropylbutamide					

U.S. TSCA

Product code: T1355 Product name: N,2,3-Trimethyl-2- 8 / 10

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
N,2,3-Trimethyl-2-isopropylbutamide	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
N,2,3-Trimethyl-2-isopropylbutamide	Not Listed	Not Listed

EU Classification

R -phrase(s)

not determined

S -phrase(s)

none

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

Indication of danger:

Not dangerous

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1-2004 standards.

Preparation Date 02-Dec-2010

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

Product code: T1355 Product name: N,2,3-Trimethyl-2- 9 / 10

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. The physical properties reported in this MSDS 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 MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Product code: T1355 Product name: N,2,3-Trimethyl-2-

isopropylbutamide

10/10