



SAFETY DATA SHEET

Preparation Date: 12/20/2016 Revision Date: Not Applicable Revision Number: Not Applicable

1. IDENTIFICATION

Product identifier

11264 Product code:

Product Name: Isopropylidenemalononitrile

Other means of identification

No information available Synonyms:

13166-10-4 CAS #: RTECS# Not available CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: For manufacturing or laboratory use only.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000.

https://www.spectrumchemical.com **Order Online At:**

Chemtrec 1-800-424-9300 Emergency telephone number **Contact Person:** Martin LaBenz (West Coast) Ibad Tirmiz (East Coast) **Contact Person:**

2. HAZARDS IDENTIFICATION

Classification

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

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

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Label elements

Danger

Hazard statements

Toxic if swallowed Toxic in contact with skin

Toxic if inhaled

Causes serious eye irritation

Causes skin irritation

Product code: 11264



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

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/attention.

IF ON SKIN: Wash with plenty of water

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Rinse mouth.

Precautionary Statements - Storage

Store locked up

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Isopropylidenemalononitrile	13166-10-4	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. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect

Product code: 11264 Product name: 2 / 11

himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water

for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately. Toxic in

contact with skin.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. WARNING! It may be hazardous to the person providing aid to give

mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or 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. Immediate medical attention is

required.

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

unconscious person. Immediate medical attention is required. Call a physician or Poison

Control Center immediately. Toxic if swallowed.

Most important symptoms and effects, both acute and delayed

Symptoms Toxic by inhalation, in contact with skin and if swallowed. Causes skin irritation. Causes

serious eye irritation. Irritating to respiratory system.

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 (CO2). Water spray, mist, or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Oxides. Nitrogen Oxides.

Specific hazards: May be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available.

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. Evacuate personnel to safe areas. Do not touch damaged

containers or spilled material unless wearing appropriate protective clothing. Use personal

protective equipment. Remove all sources of ignition.

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 Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a

suitable chemical waste container.

Methods for cleaning upUse appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Store in a segregated and approved area. Heat sensitive. Keep at temperatures between 2 and 8 °C. Keep refrigerated. Air sensitive. Store under inert gas. Packed under Argon.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Isopropylidenemalononit	13166-10-4	None	None	None	None
rile					

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Isopropylidenemalononit rile	13166-10-4	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Isopropylidenemalononitrile	13166-10-4	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

> Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below

their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

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

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Avoid contact with skin, eyes and clothing. When using, do not eat, drink or Hygiene measures:

smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid Clear. Colorless to pale yellow.

Odor: **Taste** Formula: Odorless. No information available. C6H6N2

Molecular/Formula weight: Flammability: Flashpoint (°C/°F): No information available 101°C (214°F) 106.13

Autoignition Temperature (°C/°F): Flash Point Tested according to:

Lower Explosion Limit (%): No information available No information available Closed cup

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 30° - 34°C (86° - 93.2°F) No information available

Boiling point/range(°C/°F): **Bulk density:** Density (g/cm3):

112°C (234°F) @ 3.3 kPa No information available 0.96

Specific gravity: 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 Viscosity: No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

Not miscible with water Soluble in Methanol

10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong oxidizing agents

Chemical stability

Stability: Heat sensitive. Sensitive to air. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to air. Avoid excessive heat and light. Ignition sources. Incompatible

materials.

Incompatible Materials: Strong oxidizing agents

Hazardous decomposition

products:

Carbon oxides. Nitrogen oxides (NOx).

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. Eyes. Ingestion. Inhalation.

Acute Toxicity

Component Information

Isopropylidenemalononitrile

CAS-No. 13166-10-4

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 infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = 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
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. Toxic in contact with skin.

Eye Contact: Causes serious eye irritation.

Inhalation Toxic by inhalation. Irritating to respiratory system.

Ingestion Toxic if swallowed. Causes digestive (gastrointestinal) tract irritation. May cause

digestive (gastrointestinal) tract burns.

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.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Isopropylidenemalononitrile	13166-10-4	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
STOT - repeated exposure
Target Organs:

No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: 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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Isopropylidenemalononitrile	13166-10-4	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3276

Proper Shipping Name: Nitriles, liquid, toxic, n.o.s. (Isopropylidenemalononitrile)

Hazard Class: 6.1

Subsidiary Class No information available

Packing group: III Emergency Response Guide 151

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsIB3, T7, TP1, TP28Symbol(s):No information available

Description: UN3276, NITRILES, LIQUID, TOXIC, N.O.S. (Isopropylidenemalononitrile), 6.1, III

TDG (Canada)

UN-No: UN3276

Proper Shipping Name: Nitriles, toxic, liquid, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN3276, NITRILES, TOXIC, LIQUID, N.O.S. (Isopropylidenemalononitrile), 6.1, III

ADR

UN-No: UN3276

Proper Shipping Name: Nitriles, toxic, liquid, n.o.s.

Hazard Class: 6.1 Packing Group: III

Subsidiary Risk: No information available

Special Provisions 274

Description: UN3276, NITRILES, TOXIC, LIQUID, N.O.S. (Isopropylidenemalononitrile), 6.1, III

IMO / IMDG

UN-No: UN3276

Proper Shipping Name: Toxic solids, organic, n.o.s. (N,N-Dimethyl-1,4-phenylenediamine Sulfate)

Nitriles, liquid, toxic, n.o.s. (Bromoacetonitrile) Nitriles, liquid, toxic, n.o.s. (5-Chlorovaleronitrile)

Nitriles, liquid, toxic, n.o.s. (Isopropylidenemalononitrile)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 223, 724

Description UN3276, NITRILES, LIQUID, TOXIC, N.O.S. (Isopropylidenemalononitrile), 6.1, III

RID

UN-No: UN3276

Proper Shipping Name: Nitriles, liquid, toxic, n.o.s. (Isopropylidenemalononitrile)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group: III Special Provisions 274

Description: UN3276, NITRILES, LIQUID, TOXIC, N.O.S. (Isopropylidenemalononitrile), 6.1, III

ICAO

UN-No: UN3276

Proper Shipping Name: Nitriles, toxic, liquid, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Description: UN3276, NITRILES, TOXIC, LIQUID, N.O.S. (Isopropylidenemalononitrile), 6.1, III

Special Provisions A3, A4, A137

IATA

UN-No: UN3276

Proper Shipping Name: Nitriles, liquid, toxic, n.o.s. (Isopropylidenemalononitrile)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group: III ERG Code: 6L

Special Provisions No information available

Description: UN3276, NITRILES, LIQUID, TOXIC, N.O.S. (Isopropylidenemalononitrile), 6.1, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Isopropylidenemalono	13166-10-4	Not Listed	Not present	Not present	Not present	Not present	Not present	Not present
nitrile								

U.S. Regulations

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)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Isopropylidenemalononitrile	13166-10-4	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	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
Isopropylidenemalo nonitrile	13166-10-4	None	None	None	None	None

U.S. TSCA

Components		, ,	TSCA 8(d) -Health and Safety Reporting
Isopropylidenemalononitrile	13166-10-4	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

D1B Toxic materials

D2B Toxic materials

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	CAS-No.	Canada (DSL)	Canada (NDSL)
Isopropylidenemalononitrile	13166-10-4	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Isopropylidenemalononitrile	13166-10-4	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Isopropylidenemalononitrile	13166-10-4	Not listed

EU Classification

R-phrase(s)

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

R36/38 - Irritating to eyes and skin.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - After contact with skin, wash immediately with plenty of water

S46 - If swallowed, seek medical advice immediately and show this container or label.

S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

S36/37 - Wear suitable protective clothing and gloves.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Isopropylidenemalononitri le	13166-10-4		No information	

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

Indication of danger:

T - Toxic Xi - Irritant.





16. OTHER INFORMATION

Preparation Date: 12/20/2016
Revision Date: Not Applicable
Prepared by: Roumann Pangilinan

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