



SAFETY DATA SHEET

Preparation Date: 12/21/2016 Revision date 04/04/2019 Revision Number: G4

1. IDENTIFICATION

Product identifier

Product code: C1177

Product Name: N,N-CARBONYLDIIMIDAZOLE, HIGH PURITY

Other means of identification

Synonyms: 1-Oxomethylenebis(N-imidazole) diimidazoleyl ketone,N'-Carbonylbis(imidazole)

,1'-Carbonylbis-1H-imidazole, 1,1'-carbonyldi- (8CI), di-1H-imidazol-1-yl-H-imidazol-1-ylmethanone

,1'-Carbonyldiimidazole

CAS #: 530-62-1

RTECS # Not available

CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
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)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements

Danger

Hazard statements

Harmful if swallowed

Causes severe skin burns and eye damage

Product code: C1177 Product name:
N,N-CARBONYLDIIMIDAZOLE, HIGH

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection

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. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
N,N'-Carbonyldiimidazole	530-62-1	100

4. FIRST AID MEASURES

First aid measures

National Capital Poison Center in the United States can provide assistance if you **General Advice:**

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)

Product code: C1177 **Product name:** Page 2/12 involved and take precautions to protect themselves. First aider needs to protect

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.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

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.

Most important symptoms and effects, both acute and delayed

Symptoms Causes severe skin burns and eye damage

Harmful if swallowed

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

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides

(NOx).

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. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all

sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

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 Sweep up and shovel into suitable containers for disposal. 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. Keep away from incompatible materials.

Safe Handling Advice

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

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. 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 Materials:

Strong acids Strong oxidizing agents Strong bases Amines

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
N,N'-Carbonyldiimidazol	530-62-1	None	None	None	None
е					

Canada

Component CAS No	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
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			Columbia		
N,N'-Carbonyldiimidazol	530-62-1	None	None	None	None
e					

Australia and Mexico

Component	CAS No	Australia	Mexico
N,N'-Carbonyldiimidazole	530-62-1	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

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

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. Wash hands before breaks and

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Crystalline, Crystalline powder. White, Cream.

Odor:TasteFormulaNo information available.No information available.C7H6N4O

To information available.

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

no data available Flammability (solid, gas) Flashpoint (°C/°F):

No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):
Not available No information available

Not available No information available No information available

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

No information available 116-120°C/ 241-248°F No information available

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

Decomposes No information available No information available

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N,N-CARBONYLDIIMIDAZOLE, HIGH

PURITY

Specific gravity: pH Vapor pressure @ 20°C (kPa):

No information available
No information available
No information available

Evaporation rate: Vapor density: VOC content (g/L):

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:

No information available
No information available

10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids

Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Ignition sources. Incompatible materials. Exposure to moisture. Exposure to

moist air.

Incompatible Materials: Strong acids

Strong oxidizing agents

Strong bases Amines

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: Eyes. Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

N,N'-Carbonyldiimidazole	
CAS No	530-62-1

LD50/oral/rat = 1071 mg/kg Oral LD50

Product code: C1177 Product name:
N,N-CARBONYLDIIMIDAZOLE, HIGH
PURITY

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 LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Tox = 1071 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

Value - Acute Tox = 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 severe irritation and burns.

Eye Contact: Causes severe eye irritation and possible burns.

Inhalation May cause respiratory tract irritation.

Ingestion Harmful if swallowed.

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 -	NTP	OSHA HCS -	Australia -	Australia -
			Carcinogens		Carcinogens	Notifiable	Prohibited

						Carcinogenic Substances	Carcinogenic Substances
N,N'-Carbonyldiimidazole	530-62-1	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 availableDevelopmental Effects:No information availableTeratogenic 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

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo 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
N,N'-Carbonyldiimidazole	530-62-1	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3263

Product code: C1177 Product name: Page 8 / 12

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.(N,N-carbonyldiimidazole)

Hazard Class 8

Subsidiary Class No information available

Packing group: Il Emergency Response Guide 154

Number

Marine PollutantSevere Marine PollutantDOT RQ (lbs):No information availableSpecial ProvisionsIB8, IP2, IP4, T3, TP33

Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical

names of the hazardous material must be entered in parentheses, in association

with the basic description.

Description: UN3263, Corrosive solid, basic, organic, n.o.s., 8, II

TDG (Canada)

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.(N,N-carbonyldiimidazole)

Hazard Class 8

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN3263, Corrosive solid, basic, organic, n.o.s., 8, II

ADR

UN Number UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.(N,N-carbonyldiimidazole)

Transport hazard class(es) 8
Packing group | |

Subsidiary Risk: No information available

Special Provisions 274

Description: UN3263, Corrosive solid, basic, organic, n.o.s., 8, II

IMDG

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.(N,N-carbonyldiimidazole)

Hazard Class:

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 274

Description UN3263, Corrosive solid, basic, organic, n.o.s. (N,N'-CARBONYLDIIMIDAZOLE),

8, II

RID

UN Number UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.(N,N-carbonyldiimidazole)

Transport hazard class(es) 8

Subsidiary Risk: No information available

Packing group || Special Provisions || 274

Description: UN3263, Corrosive solid, basic, organic, n.o.s., 8, II

ICAO (air)

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.(N,N-carbonyldiimidazole)

Hazard Class 8

Product code: C1177 **Product name:** N,N-CARBONYLDIIMIDAZOLE, HIGH

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Subsidiary Risk: No information available

Packing Group:

Description: UN3263, Corrosive solid, basic, organic, n.o.s., 8, II

Special Provisions A3

IATA

UN Number UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.(N,N-carbonyldiimidazole)

Transport hazard class(es) 8

Subsidiary Risk: No information available

Packing group II Precautionary Statements - 8L

Response

Special Provisions No information available

Description: UN3263, Corrosive solid, basic, organic, n.o.s., 8, II

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
N,N'-Carbonyldiimidaz ole	530-62-1	PresentACTIV E	Present KE-04758	Not present	Present (5)-6491	Not listed	Present	Present 208-488-9

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)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
N,N'-Carbonyldiimidazole	530-62-1	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
N,N'-Carbonyldiimid azole	530-62-1	None	None	None	None	None

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules	TSCA 8(d) -Health and Safety	
		(SNURS)	Reporting	
N,N'-Carbonyldiimidazole	530-62-1	Not Applicable	Not Applicable	

Canada

Product code: C1177 Product name: Page 10 / 12

WHIMIS 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)
N,N'-Carbonyldiimidazole	530-62-1	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
N,N'-Carbonyldiimidazole	530-62-1	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
N,N'-Carbonyldiimidazole	530-62-1	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
N,N'-Carbonyldiimidazole	530-62-1	

EU - CLP (1272/2008)

R-phrase(s)

R22 - Harmful if swallowed

R34 - Causes burns

S -phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
N,N'-Carbonyldiimidazole	530-62-1		No information	

PURITY

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

Indication of danger:

C - Corrosive Xn - Harmful





Product code: C1177 **Product name:** N,N-CARBONYLDIIMIDAZOLE, HIGH

16. OTHER INFORMATION

Preparation Date:12/21/2016Revision date04/04/2019Prepared 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

Product code: C1177