

SAFETY DATA SHEET

Lonza

Acrawax™ C POWDER

Version 1.0

MSDS Number: 000000002289

Revision Date: 2015.05.20

SECTION 1. IDENTIFICATION

Product name : Acrawax™ C POWDER

Product code : 000000002289

Manufacturer or supplier's details

Company : **Lonza Inc.**
90 Boroline Road
Allendale, NJ 07401
USA
Business Telephone 1-201-316-9200

Lonza Inc.
1200 Bluegrass Lakes Pkwy
Alpharetta, GA 30004
USA
Business Telephone 1-678-624-5800

E-mail address : prodinfo@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

For US only CHEMTREC 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

This material is considered hazardous under the OSHA Hazard Communication Standard criteria, based on hazard(s) not otherwise classified.

GHS Label element

This material is considered hazardous under the OSHA Hazard Communication Standard criteria, based on hazard(s) not otherwise classified.

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air

Other hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

Acrawax™ C POWDER

Version 1.0

MSDS Number: 000000002289

Revision Date: 2015.05.20

Octadecanamide, N,N'-1,2-ethanediylbis	110-30-5	>= <=
Stearic acid	57-11-4	>= <=

SECTION 4. FIRST AID MEASURES

- If inhaled : No special precautions required.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.
In the case of skin irritation or allergic reactions see a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, do not induce vomiting - seek medical advice.
Immediately give large quantities of water to drink.
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry powder
Water spray
Foam
- Specific hazards during firefighting : Heating or fire can release toxic gas.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions
- General advice : Prevent product from entering drains.
- Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Acrawax™ C POWDER

Version 1.0

MSDS Number: 000000002289

Revision Date: 2015.05.20

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight.
Keep container tightly closed.
Keep in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Stearic acid	57-11-4	TWA	10 mg/m ³	ACGIH
		TWA	10 mg/m ³	CAD ON OEL

Appropriate engineering controls**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
Material : Wear suitable gloves.
- Eye protection : Safety glasses with side-shields
- Skin and body protection : No special protective equipment required.
- Protective measures : Risk of dust explosion.
Use only in area provided with appropriate exhaust ventilation.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : powder
- Colour : light brown
- Odour : fatty odour
- Odour Threshold : no data available
- pH : 6.5 - 7.5, (20 °C)
- Melting point/range : 140 - 145 °C
- Boiling point/boiling range : no data available
- Flash point : 270 - 290 °C
Method: open cup

Acrawax™ C POWDER

Version 1.0

MSDS Number: 000000002289

Revision Date: 2015.05.20

Evaporation rate	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	no data available
Density	:	no data available
Solubility(ies)		
Water solubility	:	0.01 mg/l (25 °C)
Solubility in other solvents	:	12.1 g/l (78 °C) Solvent: Ethanol
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity		
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Risk of dust explosion.Stable under normal conditions.
Conditions to avoid	:	Avoid dust formation. Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents Reducing agents
Hazardous decomposition products	:	Nitrogen oxides (NOx) Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Eyes
--	---	--------------------

Acrawax™ C POWDER

Version 1.0

MSDS Number: 000000002289

Revision Date: 2015.05.20

Skin
Ingestion**Acute toxicity**

- Acute oral toxicity (LD50) : > 15,380 mg/kg
Species: Rat
- Acute inhalation toxicity (LC50) : > 58 mg/l
Species: Rat
Method: US-EPA
- Acute dermal toxicity (LD50) : > 20,000 mg/kg
Species: Rabbit
Method: US-EPA

Skin corrosion/irritation

- Skin irritation : No skin irritation
Species: Rabbit

Serious eye damage/eye irritation

- Eye irritation : Mild eye irritation
Species: Rabbit

Respiratory or skin sensitisation

- Sensitisation : Remarks: no data available

Germ cell mutagenicity

- Genotoxicity in vitro : negative
Ames test, Salmonella typhimurium

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

- Toxicity to fish (LC50) : > 1,000 mg/l
Species: Oncorhynchus mykiss (rainbow trout)
Acute toxicity
Exposure time: 96 h
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (EC50) : 140 mg/l
Species: Daphnia magna (Water flea)
Immobilization
Exposure time: 48 h

Persistence and degradability

Acrawax™ C POWDER

Version 1.0

MSDS Number: 000000002289

Revision Date: 2015.05.20

Biodegradability : Test Type: Modified Sturm Test
 Concentration: 10 mg/l
 Result: Not readily biodegradable.
 Biodegradation: 15 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B
 GLP: yes

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.
 Contact waste disposal services.

Contaminated packaging : Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

IATA Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

IMDG Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : Marine pollutant: no

ADR : Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

Acrawax™ C POWDER

Version 1.0

MSDS Number: 000000002289

Revision Date: 2015.05.20

RID	:	Not dangerous goods
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Transport hazard class	:	Not applicable
Packing group	:	Not applicable
Environmental hazards	:	no
DOT	:	Not dangerous goods
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Transport hazard class	:	Not applicable
Packing group	:	Not applicable
Environmental hazards	:	no
TDG	:	Not dangerous goods
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Transport hazard class	:	Not applicable
Packing group	:	Not applicable
Environmental hazards	:	no
Special precautions for user	:	none
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	:	Not applicable

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards	:	No SARA Hazards
US State Regulations		
Massachusetts Right To Know		Not listed
Massachusetts Right To Know		No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know		No components are subject to the Pennsylvania Right to know act
Pennsylvania Right To Know		Amides, C16-C18 (even), N,N'-ethylenebis
New Jersey Right To Know		Not Assigned 20 - 30 %

Acrawax™ C POWDER

Version 1.0

MSDS Number: 000000002289

Revision Date: 2015.05.20

No components are subject to the New Jersey Right to know act

New Jersey Right To Know

Amides, C16-C18 (even), N,N'-ethylenebis	Not Assigned	20 - 30 %
Stearic acid	57-11-4	1 - 5 %

The components of this product are reported in the following inventories:

: All components of this product are currently listed on the EPA TSCA 8(b) inventory list or are incidental byproducts.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Revision Date : 2015.05.20

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.