

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Ammonium Bifluoride

Version number: 2.0

SECTION 1: Identification

1.1 Product identifier

Identification of the substanceAmmonium Bifluoride

Trade name Ammonium Bifluoride

CAS number 1341-49-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified usesChemicals for various applications

Uses advised against Do not use for squirting or spraying

Do not use for products which come into direct

contact with the skin

1.3 Details of the supplier of the safety data sheet

Valudor Products, LLC
Telephone: +1 (760) 635 8500
179 Calle Magdalena Suite 100
e-mail: info@valudor.com
Encinitas, California CA 92024
Website: www.valudor.com

United States

1.4 Emergency telephone number

Emergency information 800-535-5053 (Infotrac)

As above or nearest toxicological information centre.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Classification							
Section	Hazard class	Category	Hazard class and category	Hazard state- ment			
A.10	acute toxicity (oral)	3	Acute Tox. 3	H301			
A.2	skin corrosion/irritation	1B	Skin Corr. 1B	H314			
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318			

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

United States: en Page: 1 / 16

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word danger

Pictograms

GHS05, GHS06



Hazard statements

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/in-

ternational regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Ammonium Bifluoride

United States: en Page: 2 / 16

Identifiers

CAS No 1341-49-7

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Molar mass $57.04 \, ^{9}/_{\text{mol}}$

Purity > 95 %

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Self-protection of the first aider.

Remove victim out of the danger area.

Do not leave affected person unattended.

Call a physician immediately.

Take off immediately all contaminated clothing.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Get medical advice/attention.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Rub with a gel containing calcium gluconate.

Call a physician immediately. Causes poorly healing wounds.

Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

Following ingestion

Rinse mouth immediately and drink plenty of water.

Let water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

Call a physician immediately.

Notes for the doctor

None.

United States: en Page: 3 / 16

4.2 Most important symptoms and effects, both acute and delayed

Following ingestion: Gastrointestinal complaints. Nausea. Vomiting. Diarrhoea. Circulatory collapse.

Following inhalation: Irritating to respiratory system. Pulmonary oedema. Fever.

Following skin contact: Causes severe burns.

If in eyes: Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Subsequent observance for pneumonia and pulmonary edema.

Rinse copiously with a calcium gluconate solution.

Rub with a gel containing calcium gluconate.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

non-combustible, coordinate firefighting measures to the fire surroundings, water, fire extinguishing powder, foam, alcohol resistant foam

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products

nitrogen oxides (NOx), hydrogen fluoride (HF)

5.3 Advice for firefighters

Non-combustible.

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Coordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

chemical protection suit, self-contained breathing apparatus (SCBA)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Control of dust.

Do not breathe dust/fume/gas/mist/vapors/spray.

Do not get in eyes, on skin, or on clothing.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

United States: en Page: 4 / 16

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

Chemical protection suit.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Take up mechanically.

Advice on how to clean up a spill

Take up mechanically.

Collect spillage.

Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Measures to prevent aerosol and dust generation.

Removal of dust deposits.

Specific notes/details

None.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Never keep food or drink in the vicinity of chemicals.

Remove contaminated clothing and protective equipment before entering eating areas.

Contaminated work clothing must not be allowed out of the workplace.

Take off contaminated clothing.

Do not breathe dust/fume/gas/mist/vapors/spray.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

Preventive skin protection (barrier creams/ointments) is recommended.

United States: en Page: 5 / 16

7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards

None.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Protect against external exposure, such as

heat, humidity

Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

Ventilation requirements

Provision of sufficient ventilation.

Specific designs for storage rooms or vessels

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

Store in a dry place.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to DOT) may be used.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The following constituents are the only constituents of the product which have a PEL, a TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Occup	Occupational exposure limit values (Workplace Exposure Limits)								
Coun try	Name of agent	CAS No	Iden- tifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Nota- tion	Source
US	inorganic, solid fluorides	16984- 48-8	REL	-	2.5 (10 h)	-	-	F	NIOSH REL

Notation

calculated as F (fluorine)

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of

8 hours time-weighted average (unless otherwise specified

8.2 Exposure controls

Appropriate engineering controls

Use local and general ventilation.

United States: en Page: 6 / 16

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
NR: natural rubber, latex	≥ 0,5 mm	>480 minutes (permeation: level 6)
CR: chloroprene (chlorobutadiene) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)
NBR: acrylonitrile-butadiene rubber	≥ 0,35 mm	>480 minutes (permeation: level 6)
IIR: isobutene-isoprene (butyl) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)
FKM: fluoro-elastomer	≥ 0,4 mm	>480 minutes (permeation: level 6)
PVC: polyvinyl chloride	≥ 0,5 mm	>480 minutes (permeation: level 6)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

Chemical protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

P2 (filters at least 94 % of airborne particles, color code: White).

Type: B-P2 (combined filters for acidic gases and particles, color code: Grey/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state solid (flakes)

Color white

Odor stinging

Odor threshold not determined

United States: en Page: 7 / 16

Other safety parameters

pH (value) 3.5 (in aqueous solution: 5 wt%)

Melting point/freezing point 125 °C

Boiling point or initial boiling point and boiling 230 °C at 1,013 hPa

range

Flash point not applicable

Evaporation rate not determined

Flammability (solid, gas) non-combustible

Explosive limits

not determined

Explosion limits of dust clouds not determined

Vapor pressure 1 hPa at 20 °C

Density and/or relative density

Density $1.5 \, {\rm g/_{cm^3}}$ at 20 °C

Relative density 1.5 at 20 °C (water = 1)

Relative vapour density not relevant (solid)

Solubility(ies)

Water solubility $\sim 600 \, ^{\rm g}/_{\rm l}$ at 20 °C

(EU method A.6)

Partition coefficient

n-octanol/water (log KOW) not relevant

(inorganic)

Auto-ignition temperature not determined

Decomposition temperature >230 °C

Viscosity not relevant

(solid)

Explosive properties none

Oxidizing properties none

Information for relevant hazard classes

according to GHS

hazard classes acc. to GHS (physical hazards):

not relevant

9.2 Other information there is no additional information

United States: en Page: 8 / 16

SECTION 10: Stability and reactivity

10.1 Reactivity

Substance or mixture corrosive to metals.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

Contact with acids liberates very toxic gas: Hydrogen fluoride (HF).

Dangerous/dangerous reactions with: Alkalines (Ammonia (NH3). - Development).

10.4 Conditions to avoid

Keep away from heat.

Protect from moisture.

High temperatures >120°C.

10.5 Incompatible materials

acids, bases, light metals (due to the release of hydrogen in an acid/alkaline medium), glass, tiles and ceramics

10.6 Hazardous decomposition products

Hydrogen fluoride (HF).

Ammonia (NH3).

Nitrogen oxides (NOx).

Hydrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Toxic if swallowed.

Exposure route	Endpoint	Value	Species	Method
oral	LD50	130 ^{mg} / _{kg}	rat	OECD Guideline 401

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

United States: en Page: 9 / 16

Respiratory or skin sensitization

Skin sensitization

Shall not be classified as a skin sensitizer.

Respiratory sensitization

Shall not be classified as a respiratory sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

IARC Monographs

not listed

National Toxicology Program (United States)

not listed

OSHA Carcinogens

Not listed.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Other information

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Based on available data, the classification criteria are not met.

Endpoint	Exposure time	Value	Species	Method
LC50	96 h	421.4 ^{mg} / _l	fish	-

Aquatic toxicity (chronic)

No data available.

United States: en Page: 10 / 16

12.2 Persistence and degradability

Biodegradation

The study does not need to be conducted because the substance is inorganic.

Persistence

The study does not need to be conducted because the substance is inorganic.

12.3 Bioaccumulative potential

n-octanol/water (log KOW) not relevant (inorganic)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1 (Slightly hazardous to water) Keep away from drains, surface and ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packages

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number

DOT UN1727IMDG-Code UN1727ICAO-TI UN1727

14.2 UN proper shipping name

DOT Ammonium hydrogendifluoride, solid

IMDG-Code AMMONIUM HYDROGENDIFLUORIDE, SOLID

United States: en Page: 11 / 16

Danger label(s)

Excepted quantities (EQ)

Limited quantities (LQ)

	ICAO-TI	Ammonium hydrogendifluoride, solid
14.3	Transport hazard class(es)	
	DOT	8
	IMDG-Code	8
	ICAO-TI	8
14.4	Packing group	
	DOT	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Transport in bulk according to IMO instruments	-
14.8	Information for each of the UN Model Regu	<u>lations</u>
14.8	Information for each of the UN Model Regu Transport of dangerous goods by road or ra	
14.8		
14.8	Transport of dangerous goods by road or ra	il (49 CFR US DOT) Additional information UN1727, Ammonium hydrogendifluoride, solid, 8,
14.8	Transport of dangerous goods by road or ra Particulars in the shipper's declaration	il (49 CFR US DOT) Additional information UN1727, Ammonium hydrogendifluoride, solid, 8, II 100 lbs (45.4 kg)
14.8	Transport of dangerous goods by road or ra Particulars in the shipper's declaration Reportable quantity (RQ)	il (49 CFR US DOT) Additional information UN1727, Ammonium hydrogendifluoride, solid, 8, II 100 lbs (45.4 kg) (ammonium bifluoride)
14.8	Transport of dangerous goods by road or ra Particulars in the shipper's declaration Reportable quantity (RQ)	il (49 CFR US DOT) Additional information UN1727, Ammonium hydrogendifluoride, solid, 8, II 100 lbs (45.4 kg) (ammonium bifluoride)
14.8	Transport of dangerous goods by road or range Particulars in the shipper's declaration Reportable quantity (RQ) Danger label(s)	il (49 CFR US DOT) Additional information UN1727, Ammonium hydrogendifluoride, solid, 8, II 100 lbs (45.4 kg) (ammonium bifluoride) 8
14.8	Transport of dangerous goods by road or range Particulars in the shipper's declaration Reportable quantity (RQ) Danger label(s) Special provisions (SP)	il (49 CFR US DOT) Additional information UN1727, Ammonium hydrogendifluoride, solid, 8, II 100 lbs (45.4 kg) (ammonium bifluoride) 8 IB8, IP2, IP4, N34, T3, TP33 154

United States: en Page: 12 / 16

8

E2

1 kg

EmS F-A, S-B

Stowage category A

Segregation group 1 - Acids.

2 - Ammonium compounds.

International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s) 8



Excepted quantities (EQ) E2

Limited quantities (LQ) 5 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)Substance is listed (ACTIVE)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

Not listed

Specific Toxic Chemical Listings (EPCRA Section 313)

Not listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	Name acc. to inventory	CAS No	Re- marks	Stat- utory code	Final RQ pounds (Kg)
ammonium bifluoride	ammonium bifluoride	1341-49-7	-	1	100 (45,4)

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

Clean Air Act

Not listed

United States: en Page: 13 / 16

Right to Know Hazardous Substance List

Toxic or Hazardous Substance List (MA-TURA)

Name of substance	Name acc. to inventory	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Thres hold	De Minimis Concentra- tion Threshold
ammonium bifluoride	Ammonium bifluoride	1341-49-7	-	-	-	1.0 %
ammonium bifluoride	Ammonia	7664-41-7	-	-	-	1.0 %

Hazardous Substances List (MN-ERTK)

Name of substance	Name acc. to inventory	CAS No	References	Remarks
ammonium bifluoride	Fluoride, as F	16984-48- 8	A, N, O	dust
ammonium bifluoride	Fluorides, inorganic	-	N	-

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- dust If the substance poses an airborne particulate exposure hazard, the substance is followed by the word "dust."
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

Hazardous Substance List (NJ-RTK)

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifica- tions	Listed in	Sub- stanc e num- ber	DOT num- ber
ammonium bifluoride	ammonium bifluoride	1341- 49-7	-	CO.	3 17 20	0089	1727

Legend

- 17 "2008 Emergency Response Guidebook," Research and Special Programs Administration, U.S. Department of Transportation, 2008.
- List of Hazardous Substances and Reportable Quantities (RQ), Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), U.S. Environmental Protection Agency, 40 CFR 302, Table 302.4, July 1, 2008.
- Office of Hazardous Materials Safety, Research and Special Programs Administration, U.S. Department of Transportation, 49 CFR 172.101-Hazardous Materials Table, October 1, 2008.

CO Corrosive

United States: en Page: 14 / 16

Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
AMMONIUM FLUORIDE ((NH4)(HF2))	1341-49-7	E

Legend

E Environmental hazard

Hazardous Substance List (RI-RTK)

Not listed

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Not listed

Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

Not listed

SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2021-07-20 Date of last revision: 2024-07-04.

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DOT	Department of Transportation (USA)
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IARC Mono- graphs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization

United States: en Page: 15 / 16

Abbr.	Descriptions of used abbreviations
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Responsible for the safety data sheet

Chemical Regulatory Compliance Company
Jasper, GA
Telephone: +1 (630) 410-1660
e-Mail: GHS@crc-us.com
Website: www.crc-us.com

USA

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

United States: en Page: 16 / 16