

Safety Data Sheet

Antox 71 E Extra

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(30687755/SDS_GEN_CA/EN)

1. Identification

Product identifier used on the label

Antox 71 E Extra

Recommended use of the chemical and restriction on use

Recommended use*: Treatment of metal surfaces.

Unsuitable for use: Uses other than recommended

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Canada Inc.
5025 Creekbank Road
Building A, Floor 2
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Chemical family: Water, inorganic salts, inorganic acids

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

Acute Tox.	3 (oral)	Acute toxicity
Acute Tox.	2 (dermal)	Acute toxicity
Acute Tox.	3 (Inhalation - vapour)	Acute toxicity
Skin Corr./Irrit.	1	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

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Met. Corr.

1

Corrosive to metals

Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H290

May be corrosive to metals.

H301

Toxic if swallowed.

H310

Fatal in contact with skin.

H314

Causes severe skin burns and eye damage.

H331

Toxic if inhaled.

Precautionary Statements (Prevention):

P280

Wear protective gloves, protective clothing and eye protection or face protection.

P271

Use only outdoors or in a well-ventilated area.

P270

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

P262

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

P234

Keep only in original packaging.

P264

Wash contaminated body parts thoroughly after handling.

P260

Do not breathe mist or vapour or spray.

Precautionary Statements (Response):

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340

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

P303 + P361 + P353

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

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or physician.

P301 + P330 + P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P310

Immediately call a POISON CENTER or physician.

P330

Rinse mouth.

P390

Absorb spillage to prevent material damage.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P361 + P364

Take off immediately all contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P403 + P233

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

P406

Store in corrosive resistant container with a resistant inner liner.

P405

Store locked up.

Precautionary Statements (Disposal):

P501

Dispose of contents and container to hazardous or special waste collection point.

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Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Nitric acid

CAS Number: 7697-37-2
Content (W/W): ≥ 15.0 - $< 20.0\%$
Synonym: Nitric acid; Aqua fortis

Magnesium fluoride

CAS Number: 7783-40-6
Content (W/W): ≥ 10.0 - $< 15.0\%$
Synonym: No data available.

Hydrofluoric acid

CAS Number: 7664-39-3
Content (W/W): ≥ 7.0 - $< 10.0\%$
Synonym: No data available.

The product contains:

Hydrofluoric acid

4. First-Aid Measures

Description of first aid measures

General advice:

Keep warm, calm and covered up. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

If on skin:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required. Apply calcium gluconate gel.

If in eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

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If swallowed:

Summon medical aid without delay. Keep at rest. Immediately rinse mouth and then drink milk or a magnesium hydroxide/calcium carbonate suspension, do not induce vomiting, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: Nitric acid

Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: Hydrofluoric acid

Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: Magnesium fluoride

Symptoms: No data available.

Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Indication of any immediate medical attention and special treatment needed

Note to physician

Antidote: Administration of calcium gluconate.
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

fluorinated compounds, nitrogen oxides

When dry, the substance/product is oxidising. Hazardous decomposition products formed under fire conditions.

Advice for fire-fighters

Protective equipment for fire-fighting:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire

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extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

Methods and material for containment and cleaning up

For large amounts: Use chemical neutralizing agents.

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

7. Handling and Storage

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted. Dried product promotes spreading of fire.

Conditions for safe storage, including any incompatibilities

Segregate from bases. Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene (PP)

Suitable materials for containers: rubberized

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Store only in corrosion proof containers. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. avoid contact with metals Store protected against freezing.

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Storage stability:
Storage temperature: 0 - 40 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Nitric acid	ACGIH, US: STEL value 4 ppm ; ACGIH, US: TWA value 2 ppm ; OSHA Z1: PEL 2 ppm 5 mg/m ³ ;
Hydrofluoric acid	ACGIH, US: CLV 2 ppm (fluorine (F)); ACGIH, US: TWA value 0.5 ppm (fluorine (F)); OSHA Z2: TWA value 3 ppm ; ACGIH, US: Skin Designation (fluorine (F)); Danger of cutaneous absorption
Magnesium fluoride	ACGIH, US: TWA value 2.5 mg/m ³ (fluorine (F)); OSHA Z1: PEL 2.5 mg/m ³ (fluorine (F)); OSHA Z2: TWA value 2.5 mg/m ³ dust ;

Personal protective equipment

Respiratory protection:

For short-time or low exposures in well ventilated areas, use a half mask in combination with a filter.

When working in narrow, closed and low-oxygen areas (e.g. containers) use self-contained breathing apparatus (EN 133).

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), polyvinylchloride (PVC) - 0.7 mm coating thickness, chloroprene rubber (CR) - 0.5 mm coating thickness, natural rubber/natural latex (NR) - 0.5 mm coating thickness, butyl rubber gloves - material thickness: 0.5 mm, Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1, The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties)., The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures:

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

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Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid
Odour:	pungent
Odour threshold:	No applicable information available.
Colour:	colourless
pH value:	1.0 - 2.0
Melting point:	not determined
Freezing point:	not determined
onset of boiling:	not determined
Boiling range:	not determined
Sublimation point:	No applicable information available.
Flash point:	not applicable The product has not been tested. The statement has been derived from the properties of the individual components. (ISO 3679)
Flammability:	not applicable
Lower explosion limit:	not determined
Upper explosion limit:	No applicable information available.
Autoignition:	No applicable information available.
Vapour pressure:	(20 °C) not determined
Density:	1.260 g/cm ³ (20 °C)
Relative density:	No applicable information available.
Vapour density:	Lighter than air.
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not determined
Viscosity, kinematic:	6.0 mm ² /s (20 °C)
Solubility in water:	completely miscible
Miscibility with water:	miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
Corrosive effect on metals.

Oxidizing properties:
not fire-propagating

Chemical stability

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The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Reacts with metals, with evolution of hydrogen. Dried product promotes spreading of fire.

Conditions to avoid

Avoid direct sunlight. Avoid freezing. Avoid drying-out. avoid contact with metals

Incompatible materials

metal, glass, bases, Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous decomposition products

Decomposition products:

Possible decomposition products: When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of high toxicity after short-term skin contact. Of high toxicity after single ingestion. Of pronounced toxicity after short-term inhalation.

Oral

Type of value: ATE

Value: 100.0000 mg/kg

Type of value: ATE

Value: 64 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation

Type of value: ATE

Value: 3.0000 mg/l

Determined for vapor

Type of value: ATE

Value: 4 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

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Information on: Nitric acid
Type of value: LC50
Species: rat (male/female)
Value: > 2.65 mg/l (OECD Guideline 403)
Exposure time: 4 h
The vapour was tested.

Dermal

Type of value: ATE
Value: 50.0000 mg/kg

Type of value: ATE
Value: 64 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment other acute effects

Assessment of STOT single:

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

Irritation / corrosion

Assessment of irritating effects: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Information on: Nitric acid

Assessment of irritating effects: Highly corrosive! Damages skin and eyes.

Information on: Hydrofluoric acid

Assessment of irritating effects: Highly corrosive! Damages skin and eyes.

Sensitization

Assessment of sensitization: Based on available data, the classification criteria are not met.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

Teratogenicity

Assessment of teratogenicity: Based on available data, the classification criteria are not met.

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Information on: Magnesium fluoride

Assessment of teratogenicity: The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Other Information

Inhalation of nitrous gas (e.g. after fires) can cause lung oedema. Nausea, unconsciousness, haematurie (blood in the urine), shortness of breath or circulatory collapse are possible.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways.

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

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

No data available concerning biodegradation and elimination.

Bioaccumulative potential

Bioaccumulation potential

No data available.

Mobility in soil

Assessment transport between environmental compartments

No data available.

13. Disposal considerations

Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

TDG

Hazard class: 8

Packing group: II

ID number: UN 2922

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Hazard label: 8, 6.1
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains HYDROFLUORIC ACID, NITRIC ACID)

Sea transport

IMDG
Hazard class: 8
Packing group: II
ID number: UN 2922
Hazard label: 8, 6.1
Marine pollutant: NO
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains HYDROFLUORIC ACID, NITRIC ACID)

Air transport

IATA/ICAO
Hazard class: 8
Packing group: II
ID number: UN 2922
Hazard label: 8, 6.1
Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains HYDROFLUORIC ACID, NITRIC ACID)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

NFPA Hazard codes:

Health: 3 Fire: 1 Reactivity: 1 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2023/06/23

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET