



Product Identifier: Nutrasolv
Revision Date: 05/31/2015

SAFETY DATA SHEET

This SDS complies with 29 CFR 1910.1200 (Hazard Communication Standard)
IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, and users of this product.

1. Identification

1.1. Product identifier

Product Identity	Nutrasolv
Alternate Names	Nutrasolv
Product Code	430-09

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

Intended use	Commercial rust removing laundry sour
Application Method	See Label Instructions

1.3. Details of the supplier of the safety data sheet

Company Name	Diamond Products Inc. 1216 Bozeman Ave. Helena, MT 59601
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Emergency

24 hour Emergency Telephone No.	Infotrac: 1 800-535-5053 Emergency: (406) 449-6570
Customer Service: Diamond Products Inc.	(406) 449-6570

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Acute Tox. 3;H301,H311,H331	Toxic if swallowed, Toxic in contact with skin, Toxic if inhaled.
Skin Corr. 1B;H314	Causes severe skin burns and eye damage.
Eye Dam. 1;H318	Causes serious eye damage.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H301+H311+H331 Toxic if swallowed, Toxic in contact with skin and Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

[Prevention]:

P260 Do not breathe mist / vapors / spray.

P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

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

P271: Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+352: IF ON SKIN: Wash with plenty of water.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 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 or doctor / physician.

P312: Call a POISON CENTER/ doctor if you feel unwell.

P321: Specific treatment (see information this label).

P361+364: Take off immediately all contaminated clothing and wash it before reuse.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Sodium Fluorosilicate CAS Number: 0016893-85-9	50 - 100	Acute Tox. O 3;H301 Acute Tox. D 3; H311 Acute Tox. I 3; H331	[1][2]
Reducing Agent CAS Number: Proprietary	25 - 50	Acute Tox 3;H301 Skin Corr. 1B;H314 Eye Dam. 1;H318	[1][2]
Sodium chloride CAS Number: 0007647-14-5	10 - 25	Not Classified	

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention. Rinse eyes with a calcium gluconate 1% solution in physiological serum. In case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Immediately apply calcium gluconate gel 2.5% and massage into the affected area using rubber gloves; continue to massage while repeatedly applying gel until 15 minutes after pain is relieved. If finger/fingernails are affected, dip them in a bath of 5% calcium gluconate for 15 to 20 minutes.
Ingestion	Do NOT induce vomiting. Dilute product by giving large quantities of water or milk, or give a 1% aqueous solution of calcium gluconate if possible. Call your nearest poison control center for further action and seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Overview	<p><u>EFFECTS OF OVEREXPOSURE</u></p> <p>Skin: Direct contact may result in painful irritation, reddening, swelling, and, if untreated, severe skin damage with delayed appearance. Risk of shock. In case of contact with fingernails, severe pain after several hours. Risk of hypocalcemia following the extent of the lesions.</p> <p>Eyes: Contact may cause severe irritation and burning, Lachrymation and corneal damage, if untreated.</p> <p>Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Risk of throat (o)edema and suffocation. Risk of hypocalcemia with nervous problems (tetany) and cardiac arrhythmia. Risk of convulsions, loss of consciousness, deep coma and cardiopulmonary arrest.</p> <p>Inhalation: Inhalation is irritating to the respiratory system, may cause throat pain and cough. Aspiration may cause pulmonary edema and pneumonitis. At high concentrations: risk of hypocalcemia with nervous problems (tetany) and cardiac arrhythmia. See section 2 for further details.</p>
Note to physician	<p>Indication of immediate medical attention and special treatment needed:</p> <p>A calcic depletion may occur. A supervision of the acid-base balance and the calcium rate in the serum of the blood is necessary.</p>

5. Fire-fighting measures

5.1. Extinguishing media

Not Applicable, but use of water directly on product may produce a violent reaction.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Hydrogen Fluoride vapors, hydrogen, toxic oxides of phosphorous

Do not breathe mist / vapors / spray.

5.3. Advice for fire-fighters

Neutralize with alkaline substances such as soda ash or lime. Wear full protective clothing including self-contained breathing apparatus, with chemical resistant oversuit.

ERG Guide No. 154

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Avoid releasing to the environments. Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Follow by neutralizing with sodium bicarbonate or sodium carbonate (soda ash), and rinse.

Dispose of in accordance with local, state and federal regulations.

7. Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact. Avoid creating dust. Use only in well ventilated areas.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Keep cool and dry in well ventilated area.

Avoid incompatible materials: chlorinated products, strong alkalis, strong Acids, reactive metals, and metal oxides.

Store away from oxidizers, strong acids and strong alkalis.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters**Exposure**

CAS No.	Ingredient	Source	Value
Proprietary	Reducing Agent	OSHA	TWA: 2.5 mg/m3
		ACGIH	TWA: 2.5 mg/m3
		NIOSH	TLV: 2.5 mg/m3
		Supplier	No Established Limit
0016893-85-9	Sodium Fluorosilicate	OSHA	TWA: 2.5 mg/m3
		ACGIH	TWA: 2.5 mg/m3
		NIOSH	TLV: 2.5 mg/m3
		Supplier	No Established Limit

0007647-14-5	Sodium chloride	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
Proprietary	Reducing Agent	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0016893-85-9	Sodium Fluorosilicate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007647-14-5	Sodium chloride	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

- Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
- Eyes** Chemical goggles recommended.
- Skin** Safety boots and overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. Use neoprene or rubber gloves or PVC.
- Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
- Other Work Practices** An eyewash fountain should be located in areas where the product is used. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

- Appearance** White Powder
- Odor** Irritating
- Odor threshold** Not Measured
- pH** 1% solution: 1.5 - 2.5
- Melting point / freezing point** >300 °F
- Initial boiling point and boiling range** Not applicable
- Flash Point** Non-flammable
- Evaporation rate (Ether = 1)** Not available
- Flammability (solid, gas)** Not Applicable
- Upper/lower flammability or explosive limits** **Lower Explosive Limit:** Not applicable
Upper Explosive Limit: Not applicable

Vapor pressure (Pa)	Not available
Vapor Density	Not available
Specific Gravity	0.8 g/cc
Solubility in Water	Slightly
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity (cSt)	Not available
VOC Content	Not available

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Reacts with acids liberating very toxic gas. Also may react violently with water.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

Contact with common metals may produce hydrogen gas in explosive mixtures.

10.4. Conditions to avoid

High temperatures, flames, and incompatibles.

10.5. Incompatible materials

Avoid contact with chlorinated products, strong alkalis, strong Acids, reactive metals, and metal oxides.

10.6. Hazardous decomposition products

Hydrogen Fluoride gas, hydrogen.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Sodium Fluorosilicate - (16893-85-9)	>25 - <2000, Rat	No data available	No data available	1814, Rat	No data available
Reducing Agent – (Proprietary)	No data available	No data available	No data available	No data available	No data available
Sodium chloride - (7647-14-5)	3,550.00, Rat - Category: 5	10,000.00, Rabbit - Category: NA	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	3	Toxic if swallowed
Acute toxicity (dermal)	3	Toxic in contact with skin
Acute toxicity (inhalation)	3	Toxic if inhaled
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Sodium Fluorosilicate - (16893-85-9)	Not Available	Not Available	Not Available
Reducing Agent – (Proprietary)	51 Salmo gairdneri (for NaF)	Not Available	43-81 (for NaF)
Sodium chloride - (7647-14-5)	1,100.00, Freshwater Fish	3,310.00, Daphnia magna	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)
14.1. UN number	UN2856
14.2. UN proper shipping name	UN2856 Fluorosilicates, N.O.S,(contains: Sodium Fluorosilicate and Ammonium Bifluoride), 6.1,PG III
14.3. Transport hazard class(es)	DOT Hazard Class: 6.1
14.4. Packing group	III
14.5. Environmental hazards	
IMDG	Marine Pollutant: No
14.6. Special precautions for user	No further information

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2B
US EPA Tier II Hazards	<p style="text-align: right;">Fire: No</p> <p style="text-align: right;">Sudden Release of Pressure: No</p> <p style="text-align: right;">Reactive: No</p> <p style="text-align: right;">Immediate (Acute): Yes</p> <p style="text-align: right;">Delayed (Chronic): Yes</p>

EPCRA 311/312 Chemicals and RQs (lbs):

Sodium Bifluoride (100.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Sodium Bifluoride

Sodium Silicofluoride

Pennsylvania RTK Substances (>1%):

Sodium Bifluoride

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H301 Toxic if swallowed.

H311 Toxic in contact with skin

H331 Toxic if inhaled

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information herein is presented in good faith and believed to be correct as of the date hereof. However, Diamond Products, Inc., makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature with respect to the product or the information herein is made hereunder. Diamond Products, Inc., shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

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