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**SECTION 1. IDENTIFICATION**

PRODUCT IDENTIFIER

SUPPLIER / DISTRIBUTOR

DSI Automotive Products  
1271 Fayland Drive  
Fargo, ND 58102

Telephone: 800-437-4621

dsi@dsiautomotive.com

Emergency Telephone: 800-535-5053

**DC-BR Bright! Premium Wheel Cleaner**

**Recommended use of the chemical and restrictions on use**

**Recommended use** : Automotive Wheel Cleaner & Brightener  
**Restrictions on use** : Use only outdoors or in a well-ventilated area.

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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS classification in accordance with 29 CFR 1910.1200**

**Acute toxicity (Oral)** : Category 4  
**Skin corrosion** : Category 1B  
**Serious eye damage** : Category 1  
**Specific target organ toxicity - repeated exposure (Oral)** : Category 2 (Bone, Skeleton)

**GHS label elements**

**Hazard pictograms** : 

**Signal word** : Danger

**Hazard statements** : Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause damage to organs (Bone, Skeleton) through prolonged or repeated exposure if swallowed.

**Precautionary statements** : Prevention:  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

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### Response:

**IF SWALLOWED:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.  
**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
**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/doctor.  
Get medical advice/ attention if you feel unwell.  
Wash contaminated clothing before reuse.

### Storage:

Store locked up.

### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Ammonium bifluoride	1341-49-7	>= 5 - < 10
Ethoxylated nonylphenol ethoxylate	127087-87-0	>= 1 - < 3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

## SECTION 4. FIRST AID MEASURES

**General advice** : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

**If inhaled** : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

**In case of skin contact** : Take off contaminated clothing and shoes immediately.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If skin irritation persists, call a physician.

**In case of eye contact** : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.

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- If swallowed : Keep eye wide open while rinsing.  
Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
Causes serious eye damage.  
May cause damage to organs through prolonged or repeated exposure if swallowed.  
Causes severe burns.  
This product contains fluoride. Acute systemic toxicity is largely dependent upon the total amount of fluoride ion absorbed. Ingestion, significant skin contact or inhalation can cause systemic effects including electrolyte (hypocalcemia, hypomagnesemia, hyperkalemia) and acid-base abnormalities with resulting cardiovascular effects. Repeated exposure and absorption of 10-80 mg of fluoride per day may produce systemic fluorosis.

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### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen fluoride  
Carbon oxides
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.  
Do not smoke.  
Avoid contact with skin and eyes.  
Dispose of rinse water in accordance with local and national regulations.  
Container hazardous when empty.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ammonium bifluoride	1341-49-7	TWA	2.5 mg/m <sup>3</sup> (Fluorine)	OSHA Z-1
		TWA	2.5 mg/m <sup>3</sup> (Fluorine)	ACGIH
		TWA	2.5 mg/m <sup>3</sup> (Fluorine)	OSHA P0

#### Hazardous components without workplace control parameters

Components	CAS-No.
Ethoxylated nonylphenol ethoxylate	127087-87-0

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Ammonium bifluoride	1341-49-7	Fluoride (Fluorine)	Urine	Prior to shift (16 hours after exposure)	2 mg/l	ACGIH BEI

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				ceases)		
		Fluoride (Fluorine)	Urine	End of shift (As soon as possible after exposure ceases)	3 mg/l	ACGIH BEI

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

#### Hand protection

**Remarks** : Wear resistant gloves (consult your safety equipment supplier). The suitability for a specific workplace should be discussed with the producers of the protective gloves. Discard gloves that show tears, pinholes, or signs of wear.

**Eye protection** : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.

**Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear as appropriate:  
Impervious clothing  
Safety shoes

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.  
When using do not smoke.  
When using do not eat or drink.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : liquid  
**Colour** : dark violet  
**Odour** : like fruit  
**Odour Threshold** : No data available

**pH** : 4 - 5

**Melting point/freezing point** : No data available

**Boiling point/boiling range** : No data available  
**Flash point** : > 100 °C  
Method: closed cup

**Evaporation rate** : No data available

**Flammability (solid, gas)** : No data available

**Self-ignition** : No data available

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Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.03 g/cm<sup>3</sup>

Bulk density : 8.6 lb/gal

Solubility(ies)  
  Water solubility : soluble

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity  
  Viscosity, kinematic : No data available

Molecular weight : Not applicable

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Hazardous polymerisation does not occur.

Conditions to avoid : No data available

Incompatible materials : Strong reducing agents  
Strong oxidizing agents

Hazardous decomposition products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Hydrogen fluoride

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact  
Ingestion

#### Acute toxicity

Harmful if swallowed.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 1,344 mg/kg

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Method: Calculation method

Remarks: Causes digestive tract burns.

Acute inhalation toxicity : Acute toxicity estimate: 41.01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

### Components:

Ammonium bifluoride:

Acute oral toxicity : LD50 (Rat): ca. 130 mg/kg

Ethoxylated nonylphenol ethoxylate:

Acute oral toxicity : LD50 (Rat): 960 - 3,980 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): 1.15 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 - 2,991 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Causes severe burns.

### Product:

Remarks: Causes severe skin burns and eye damage.

### Components:

Ammonium bifluoride:

Result: Corrosive after 3 minutes to 1 hour of exposure

Ethoxylated nonylphenol ethoxylate:

Result: Possibly irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

### Product:

Remarks: May cause irreversible eye damage.

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### Components:

**Ammonium bifluoride:**

**Result:** Irreversible effects on the eye

**Ethoxylated nonylphenol ethoxylate:**

**Result:** Irreversible effects on the eye

**Respiratory or skin sensitisation**

**Skin sensitisation**

**Not classified based on available information.**

**Respiratory sensitisation**

**Not classified based on available information.**

### Components:

**Ethoxylated nonylphenol ethoxylate:**

**Assessment:** Does not cause skin sensitisation.

**Germ cell mutagenicity**

**Not classified based on available information.**

### Components:

**Ammonium bifluoride:**

**Genotoxicity in vitro**

**: Test Type:** Ames test  
**Test system:** Salmonella typhimurium  
**Result:** negative

**Genotoxicity in vivo**

**: Result:** In vivo tests did not show mutagenic effects  
**Remarks:** Information given is based on data obtained from similar substances.

**Carcinogenicity**

**Not classified based on available information.**

**IARC**

**No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**

**OSHA**

**No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.**

**NTP**

**No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**

**Reproductive toxicity**

**Not classified based on available information.**



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### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

May cause damage to organs (Bone, Skeleton) through prolonged or repeated exposure if swallowed.

### Components:

#### Ammonium bifluoride:

Exposure routes: Ingestion

Target Organs: Bone, Skeleton

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

Remarks: Information taken from reference works and the literature.

### Aspiration toxicity

Not classified based on available information.

### Components:

#### Ethoxylated nonylphenol ethoxylate:

No aspiration toxicity classification

Further information

### Product:

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated below) may not reflect quantity, end-use, or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1760

Proper shipping name : Corrosive liquid, n.o.s.  
(AMMONIUM BIFLUORIDE)

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Class : 8  
Packing group : II  
Labels : 8  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851  
IMDG-Code  
UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S. (AMMONIUM BIFLUORIDE)  
Class : 8  
Packing group : II  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable for product as supplied.

### National Regulations

49 CFR  
UN/ID/NA number : UN 1760  
Proper shipping name : Corrosive liquids, n.o.s. (AMMONIUM BIFLUORIDE)  
Class : 8  
Packing group : II  
Labels : 8  
ERG Code : 154  
Marine pollutant : no

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ammonium bifluoride	1341-49-7	100	1142

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

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SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

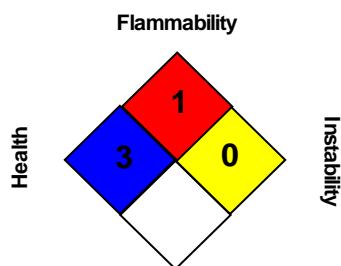
### California Prop. 65

**WARNING:** This product can expose you to chemicals including Ethylene Oxide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



Special hazard.

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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.

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