

## PZP REMOVAL GEL

### 1 IDENTIFICATION

GHS Product Identifier  
Product Code: PZP003

Other means of identification  
N/A

Recommended use of the chemical and restriction on use:  
For professional use only. Release agent for composite moulds.

Supplier's details:  
71-75 Sheton Street, Covent Garden, London, WC2H 9JQ, United Kingdom

Email: [info@siriustechnologies.co.uk](mailto:info@siriustechnologies.co.uk)

Trading Address:  
71-75 Sheton Street, Covent Garden, London, WC2H 9JQ, United Kingdom

Emergency phone number:  
+44 7718 792 400

### 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture  
Product Definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

AccuteTox.4, H302

AccuteTox.4, H312

SkinIrritation.2, H315

Serious Eye Irritation.2A, H319

AccuteTox.4, H332

ChronicTox.4, H413

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.  
See section 16 for full text of the H statements declared above. See section 11 for more detailed information on health effects and symptoms.

GHS label elements



Hazard Statements:  
Harmful if swallowed  
Harmful in contact with skin Causes skin irritation  
Causes serious eye irritation  
Harmful if inhaled

May cause long lasting harmful effects to aquatic life  
Keep only in original container  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Do not get in eyes, on skin, or on clothing.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.

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

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing.  
Rinse SKIN with water/shower.

IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

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

Other hazards which do not result in classification:  
PBT: This product is not identified as a PBT/vPvB substance

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Description	CAS Number	EINECS Number	%	Note
Ammonium Bifluoride	1341-49-7	215-676-4	5-10%	

### 4 FIRST-AID MEASURES

#### Description of necessary first-aid measures

First aid procedures should be pre-planned for fluoride compound emergencies.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. CALL A PHYSICIAN IMMEDIATELY.

Skin Contact: Wipe off any excess material from skin and then immediately flush skin with large amounts of soapy water. Remove contaminated clothing and shoes. Wash clothing before re-use. CALL A PHYSICIAN IMMEDIATELY.

Eye Contact: Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. CALL A PHYSICIAN IMMEDIATELY

Ingestion: Administer milk, chewable calcium carbonate tablets or milk of magnesia. Never give anything by mouth to an unconscious person. CALL A PHYSICIAN IMMEDIATELY.

Most important symptoms/effects, acute and delayed:

If inhaled or swallowed, this compound may cause fluoride poisoning. Early symptoms include nausea, vomiting, diarrhoea, and weakness. Later effects include central nervous system effects, cardiovascular effects and death.

Inhalation: May cause irritation and burns to the respiratory tract, symptoms may include coughing, sore throat, and laboured breathing. Symptoms may parallel those from ingestion exposure.

Irritation and burning effects may not appear immediately.

Ingestion: May cause salivation, nausea, vomiting, diarrhoea, and abdominal pain, followed by weakness tremors, shallow

respiration, cardio pedal spasm, convulsions, and paralysis. Affects heart and circulatory system.

Skin Contact: Solution is acidic and may be harmful in contact with skin especially in sensitive areas of the skin. Effects may not appear immediately. A redness of the skin may occur.

Eye Contact: May cause serious eye irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Populations that appear to be at increased risk from the effects of fluoride are individuals that suffer from diabetes insipidus or some forms of renal impairment.

## 5 FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use any means suitable for extinguishing surrounding fire. Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

### Specific hazards arising from the chemical

Fire: Not considered to be a fire hazard. If involved in a fire, can emit toxic fumes and irritating and corrosive gases.

Explosion: May react with metals to form flammable hydrogen gas.

### Special protective actions for fire-fighters:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

## 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures.

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

### Methods and materials for containment and cleaning up

Absorb into dry earth or sand. Transfer to closable, labelled salvage container for disposal by an appropriate method.

## 7 HANDLING AND STORAGE

### Precautions for safe handling

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from acids and alkalis. Solution is acidic. Can cause glass and metal corrosion. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, ventilated area.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Occupational exposure limits:

No data available

DNEL/PNEC Values: No data available

Appropriate engineering controls:

Ensure there is sufficient ventilatoin of the area.

### Individual protection measures

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand Protection: Protective Gloves.

Eye Protection: Safety glasses. Ensure eye bath is to hand.

Skin Protection: Protective clothing

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Appearance

Physical State:	Liquid
Colour:	Blue-Green
Odour:	Pungent
Evaporation Rate:	Negligible
Initial boiling point and boiling rage:	100
Flash Point:	N/A
Upper:	N/A
Solubility in water	Soluble
Oxidising:	Non-oxidising (by EC Criteria)
Viscosity	Viscous

## 10 STABILITY AND REACTIVITY

Reactivity

Stable under recommended transport or storage conditions.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid

Heat.

Incompatible materials

Strong oxidising agents. Strong acids.

Hazardous decomposition products

In combustion emits toxic fumes.

## 11 TOXICOLOGICAL INFORMATION TOXICOLOGICAL (HEALTH) EFFECTS

### Toxicological (health) effects

Ammonium Bifluoride

IPR	RAT	LD50	31	Mg/kg
SVU	FRG	LDLO	280	Mg/kg

Hazard	Route	Basis
Acute Toxicity (ac. Tox. 4)	ING	Hazardous: calculated

### Information on the likely routes of exposure

#### Acute toxicity

If inhaled or swallowed, this compound can cause fluoride poisoning. Early symptoms include nausea, vomiting, diarrhea, and weakness. Later effects include central nervous system effects, cardiovascular effects and death.

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation: May cause irritation and burns to the respiratory tract, symptoms may include coughing, sore throat, and laboured breathing. Symptoms may parallel those from ingestion exposure. Irritation and burning effects may not appear immediately.

Ingestion: May cause salivation, nausea, vomiting, diarrhea, and abdominal pain, followed by weakness, tremors, shallow respiration, cadopedal spasm, convulsions, and coma. May cause brain and kidney damage. Death may be caused by respiratory paralysis. Affects heart and circulatory system.

Skin Contact: Solution is acidic and may be harmful in contact with skin, especially in sensitive areas of the skin. Effects may not appear immediately. A redness of the skin may occur.

Eye Contact: May cause serious eye irritation.

### Delayed and immediate effects and also chronic effects from short- and long-term exposure

NA

Numerical measures of toxicity (such as acute toxicity estimates)

NA

Interactive effects

NA

Where specific chemical data are not available

NA

Mixtures

NA

Mixture versus ingredient information

NA

Other information

Chronic Exposure: Chronic exposure may cause mottling of teeth and bone damage (osteosclerosis) and fluorosis.

Symptoms of fluorosis include brittle bones, weight loss, anaemia, calcified ligaments, general ill health and joint stiffness.

Aggravation of Pre-existing Conditions: Populations that appear to be at increased risk from the effects of fluoride are individuals that suffer from diabetes insipidus or some forms of renal impairment.

## 12 ECOLOGICAL INFORMATION

Toxicity

There are no data available

Persistence and degradability  
Biodegradable

Bio accumulative potential  
No bioaccumulation potential.

Mobility in soil  
Readily absorbed into soil.

Other adverse effects  
Negligible Eco toxicity.

## 13 DISPOSAL CONSIDERATIONS

Disposal methods

Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14 TRANSPORT INFORMATION

UN Number  
Not applicable

UN Proper Shipping Name  
Not applicable

Transport hazard class(es)  
Not applicable

Packing group, if applicable  
Not applicable

Environmental hazards  
Not applicable

Special precautions for user  
Not applicable

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

## 15 REGULATORY INFORMATION

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

### 16 OTHER INFORMATION

#### Other information

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox.4, H302	Expert Judgement
Acute Tox.4, H312	Expert Judgement
Acute Tox.4, H332	Expert Judgement
Skin Irrit.2, H315	Expert Judgement
Eye Irrit. 2A, H319	Expert Judgement
Aquatic Chronic4, H413	Expert Judgement

Full text of H-phrases and P-phrases referred to in sections 2 and 3

H302: Harmful if swallowed

H312: Harmful in contact with skin

H315: Causes skin irritation

H319: Causes serious eye irritation

H332: Harmful if inhaled

H413: May cause long lasting harmful effects to aquatic life

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#### Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.