

Material Safety Data Sheet

1 Corporate information chemistry substance

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Chemistry substance names **HYDROPROOF HT-HX**

2 Constituent information

Product name: Hydro-proof HT-HX
Compound: Alkali metallic salt, Silica compound, High reaction inorganic catalyst
Characteristic: It is effective to the recovery of alkalinity. Old concrete surface strength is made 30-50% strong. There is an effect of washing of a dirty wall. There is water-proof

Constituent	Official gazette notification number	
1. Lithium silicate	(1)-770	Public chemicals
2. SinOn-1(OC ₂ H ₅) _{2n+2}	(2)-2052, (2)-2053	Public chemicals
3. Water glass	(1)-508	Public chemicals
4. Water	Off the subject	-

(Application law relates to MSDS)

Virulence and deleterious substance regulation: Non-correspondence

Law Concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in Their Management (PRTR regulation): Non-correspondence

Industrial Safety and Health Law The enforcement orders: Articles 18.2

Harmful substance that should notify name: Notification number 311 (Amorphous silica 1% or less)

3 Summary of Danger Detrimental

The name of a classification:

It does not correspond to the standard of a classification.

Danger: Special danger is not reported.

Detrimental: When drunk by mistake and exposed, there is detrimental fear.

4 Emergency Measure:

The skin, an eye, membrane, etc. may be stimulated.

When it goes into an eye:

After pure running water washes 15 minutes or more immediately receive a medical examination of a doctor. An eyelid is opened and it is made for water to spread to all the corners of an eyeball in the case of washing.

When it adheres to the skin:

The polluted clothing shoes are taken off promptly. It washes pouring a lot of water or lukewarm water. It fully washes out using soap etc. if needed. When change is looked at by appearance or an ache is in it, a medical examination of a doctor is received.

When it inhales:

When feeling becomes bad, it is made quiet in the pure place of air and a medical examination of a doctor is received immediately.

When it understands:

Water is sufficient the inside of a mouth is washed and a medical examination of a doctor is received immediately.

5 Measure in case of Fire

Fire-extinguishing method:

A suitable protection implement is worn. Although this substance is nonflammability combustion and high temperature decompose, and since there is a possibility of generating poisonous Hume it is careful.

Fire-extinguishing agent:

water atomization, Bubble, Powder, Carbon dioxide

 Chemistry substance names **HYDROPROOF HT-HX**

6 Accidental release measures

Take up with absorbent for chemicals or, of necessary with dry sand.
Rinse away residue with plenty water.

7 Handling and storage:

Keep container tightly closed.
Handle and open container with care. No special measures required.
Storage: After sealing it is kept in a regular cool place.
Storage at the freezing point is not carried out.

8 Exposure Prevention and Protection Measure

Administrative concentration It is not set up.
(As Amorphous silica)
Permission concentration ACGIH TLV TWA 10 mg/m³, total dust
OSHA PEL : 8H TWA 80 mg/m³ SiO₂
NIOSH REL TO SILICA, amorphous, precipitated, gel-air:
TWA 6 mg/m³

The measure against equipment

Eye protection: Wear eye/face protection.
Avoid contact with eyes and skin.
Hand protection: of rubber

Protection implement breathing

A situation is embraced and they are a gas mask a simple gas mask etc.

9 Physical and Chemical Character

Appearance etc	Transparent colorless liquid or translucence liquid
Melting point	No information
Specific gravity	1.03g/ml (20 °C)
Boiling point	No information
Steam pressure	No information
Steamy density	No information
Solubility	No information
Flash point	No information
Ignition point	No information
Explosion limit	No information
Others	Surface tension 33dyn/cm (20 °C) pH: 11.9 (high Alkalinity.) coefficient of viscosity 3mPa·s les

10 Stability and Reactivity

Hazardous decomposition products: No hazardous decomposition products observed.
Stable in the usual handling conditions.

11 Detrimental Information

Stimulative The skin, an eye, and membrane are stimulated strongly and there is a possibility of causing inflammation.
The stimulative data to the skin or an eye is reported.
(methyl trimellitic silane)
skn-rbt 500 mg open MLD
eye-rbt 500 mg/ 24H MLD
The stimulative data to the skin is reported. (sodium silicate)
skn-hmn 250 mg/24H SEV
skn-rbt 250 mg/24H SEV

Acute toxicity The data of acute toxicity is reported.(amolphous silica fume)
ori-rat LD50: 3160 mg/kg
ipr-rat LDLo: 50 mg/kg
ivn-rat LD50: 15 mg/kg
itr-rat LDLo: 10 mg/kg

 Chemistry substance names **HYDROPROOF HT-HX**

	The data of acute toxicity is reported. (Oxidization lithium) unr-mam LD50: 15 mg/kg
	The data of acute toxicity is reported.(methyl trimellitic silane) orl-rat LD50: 12300 uL/kg skn-rbt LD :>10 mL/kg
	The data of acute toxicity is reported.(sodium silicate As Na ₂ SiO ₃) orl-rat LD50: 1153 mg/kg orl-mus LD50: 770 mg/kg orl-dog LDLo: 250 mg/kg
Cancer original nature	The evaluation about carcinogenic is reported.(amolprous silica fume) IARC: 3 (The chemistry article which cannot be classified if there is carcinogenic to a man)
Variation original	The data of oncogenicity is reported.(amolprous silica fume) ihl-rat TCLo: 50 mg/m ³ /6H/2Y-I The data of variation original is reported.(amolprous silica fume) dns-rat-itr 120 mg/kg bfa-rat-Ing 120 mg/kg
Reproduction toxicity	The data of reproduction toxicity is reported.(sodium silicate) scu-rat TDLo: 9766 ug/kg (1D male) itt-rat TDLo: 9766 ug/kg (1D male)
Teratogenicity	The data of teratogenicity is reported.(sodium silicate) orl-rat TDLo: 15 gm/kg (14W male/14W pre-3W post)
Others	Others The data of a publication is extracted from RTECS. Please refer to the original about data and the still more detailed information other than these. [RTECS number: VV7310000 (amolprous silica fume), VV4650000(methyl trimellitic silane), VV9275000(sodium silicate)]

12 Environmental Influence Information

Since there is a danger of affecting environment in the cases disclosure and abandonment it is cautious of handling.

13 Cautions on Abandonment

A suitable protection implement is worn.
It processes according to a related regulation or regulations.
It is made for there to be no possibility of producing hygiene top harm.
It carries out, after removing a contents thing completely, when disposing of an empty container.

14 Cautions on Transportation

It confirms that there is no leak in a container on the occasion of conveyance it loads so that there may not be a fall and damage prevention of collapse cargo piles is ensured.
U.N. classification It does not correspond to the classification standard of the U.N.
U.N. number No relevance.

15 Application Statute

The detrimental thing notification number 311 which should notify a name etc.
(amolprous silica fume)
Sea Pollution Prevention Act: Enforcement ordinance attached table the 1st detrimental liquid substance (C Kind)(sodium silicate)

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16 Other information**Quotation reference**

- Industrial poisoning manual Enlarged edition
 - The chemistry goods of 13901, a chemical industry daily report company (2001)
 - Registry of Toxic Effects of Chemical Substances (RTECS), NIOSH
 - The Hazardous Substances Data Bank (HSDB), NLM (CD-ROM version)
 - Sax's Dangerous Properties of Industrial Materials 9th ed., R.J.Lewis, Sr., Van Nostrand Reinhold (CD-ROM version)
 - The MERCK INDEX 12th ed., Merck & Co., Inc., Chapman & Hall
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Although this MSDS is created in good faith based on the information which we could know, it does not make any guarantees about evaluation of the data of a publication, danger, and detrimental nature. Please investigate danger and not only detrimental nature information but the newest rule of the organization which uses it an area, and a country, regulations, a regulation system, etc. in advance of use and give top priority to them.

The purchased goods make it the major premise to be consumed promptly also from the point of safety. Then, since new information and new correction may be added, when it should be sharply postponed by use time or concern has been held, please consult with our company anew.

Moreover, notes of a publication need to pay sufficient attention after implementing the safety measures suitable for the situation, when carrying out special handling for the usual handling. It should treat by recognition all chemicals "have strange danger and detrimental nature" and the danger and detrimental nature also change greatly with the environment at the time of use how to treat or the state of storage, and periods. It warns of dealing with it under instruction of directions with special knowledge and experience or those people until it results from opening in storage and abandonment not to mention the time of use.

In the responsibility for use Gentlemen I ask you to set up a safe operating condition.

Purpose of use

WP-GS demonstrates an effect also as a measure against efflorescence as finish material of concrete for the purpose of the last surface protection such as surface weathering discoloration prevention.