Code

Hypros HYP-R2S

Issued: Revised: March 07, 2013 December 7, 2015

1. Chemical Product and Company Identification

Chemical product name

HYPROS HYP-R2S

Supplier **Address**

KYOKUTO BOEKI KAISHA, LTD.

2-1, Otemachi 2-Chmome, Chiyoda-ku,

Tokyo 100-0004 Japan

Telephone number

Fax number

0800-222-0707 03-3246-2159

2. Hazard Identification

GHS Classification

Physical hazards

Substances and mixtures which, in contact

with water, emit flammable gases

Not classified

Health hazards

Acute toxicity (Oral)

Not classified

Skin corrosion / irritation Eye damage / irritation

Category 1

Category 1

Other hazards and toxicological effects which are not stated here are

"No classification" or "can not be classified".

Label elements

Pictogram

Single word

Danger

Hazard statements

Cause severe skin burns and eye damage.

Cause serious eye damage.

May cause respiratory irritation.

Instructions

Precaution

Do not use it besides the use settled.

When in use, use protective mask, goggle and gloves. When it adheres to other places, absorb and remove it with

cloth etc., promptly.

Storage

Keep container tightly closed.

Keep away from sunlight, and keep at temperature not

exceeding 40 °C.

Keep away from alkalis.

Disposal

Entrust to the waste treatment plant, while explain the nature of

Composition / information on ingredients

Single substance or Compound

Compound

Chemical name

(main component) Inorganic acid

Composition and content

Material name

CAS No.

<u>Content</u>

Phosphoric acid

7664-38-2 62-56-6

10 - 20% 0.1 - 0.9%

Notice through official file number

PRTR Law (Japan)

Thiourea

Chemical Substance Control Law In Japan

Not applicable

Industrial Safety and Health Law (Japan)

Phosphoric acid

No. 618

Thoreau

No. 340

Poisonous and Deleterious Substances Control Act (Japan)

Not applicable

ENCS No.

Registered

UN Class UN No.

8 (Corrosive substances, P.G. 3)

3264

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4 First-aid measures

Inhalation

Remove the victim to a fresh air zone, lie quiet, and get medical

attention immediately.

Skin contact

If the product contacts skin, immediately wash it away thoroughly from

the skin area with a plenty of water. Get medical attention after washing.

A slow start or an inadequacy in washing might cause skin disorders.

Eye contact

Ingestion

Immediately flush eyes thoroughly with a plenty of water.

Then get medical attention.

A slow start or an inadequacy in flushing might cause skin disorders.

Do not induct vomiting immediately because of corrosive product.

Get medical attention immediately.

Protection for first-aides

Rescuer person should wear appropriate protective tools.

5 Fire-fighting measures

Extinguishing media
Specific method of fire-fighting

Protection for fighters

Dry chemical powder, form, carbon dioxide, sand, water. Fighter should work from windward side as much as possible.

Fighter should wear appropriate protective tools.

6 Accidental release measures

Personal precautions

Arrange adequate ventilation until it completes, in case of indoor work.

Wear proper personal protective equipment to avoid contact to skin

and inhalation of gas.

Environmental precautions

Do not allow the spilled material to enter in rivers, etc. that will cause

a possible reverse effect to environmental.

Methods for cleaning up

In case of small release, be absorbed into dry sand, soil, sawdust and waste and then collect them into empty container. Remainder should be

washed out with water.

In case of large release, enclose and block the flow by embankment,

and collect them after leading to a safety place.

Neutralization

Use alkali material (Sodium carbonate, etc.) because this is an acid based

product.

7 Handling and storage

Handling

Technical measures

Avoid contacting to skin, mucous membrane, contaminated clothes

and eyes. Wear proper protector.

Handle carefully container. Do not turn over, fall, shock and trail

container.

Precautions

Provide local or / and whole area exhaust ventilations.

Handle under well-ventilation.

Precautons for sale

handling:

Avoid contact to Alkaline products, because this is an acid based product.

Storage

Proper storage conditions

Store away from direct sunlight in a dry, cool and well-ventilated area. Avoid high temperature (over 40 degree C).

The container should be closely stopped.

Precautions

Do not keep it together with an alkaline material.

Safety material of

container and packaging

Avoid to use container made of stainless steel or iron, etc. because

it has strong corrosively.

8 Exposure control / personal protection

Protective equipment

Provide local or / and whole area exhaust ventilations.

Control parameters.

Management density

Not applicable

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Japan Society for

Occupational Health

1mg/m3 (Phosphoric acid, 2014 version)

AGGIH

1mg/m3 (TWA, Phosphoric acid, 2012 version) 1mg/m3 (STEL, Phosphoric acid, 2012 version)

Protective equipment

Eve protection

Respiratory protection
Hand protection

Simple sanitary mask Protective rubber gloves.

Safety goggles.

Skin and body protection

Impervious protective working clothes

9 Physical and chemical properties

Physical state Appearance

Liquid (@20 degree C)

Color pH Green 2.1 (1%)

Density/specific gravity

1.10 (@20 degree C)

Solubility

Soluble in water optionally

10 Physical hazard (stability and reactivity)

Stability

Lighting

May change color by lighting

Heating

Stable In the normal handling conditions Stable in the normal handling conditions

Mechanical shocking

11 Toxicological information

Acute toxicity (Oral)

LD 50 (Oral, Rad) 8500mg/kg (Note 1) Cause severe skin burns and eye damage

Local effect
Cancerous primeval

Japan Society for Occupation Health Group 2 (Thiourea)

12 Ecological information

May move to the atmosphere, area of the sea and the soil.

13. Disposal consideration

Residues

Dispose of in accordance with related laws and local regulations

via licensed waste dispose contractor.

A pollution container

and packing

Dispose of in accordance with related laws and local regulations. Dispose of an empty container, after the material is removed.

14 Transport information

International restriction

UN Class

Class 8 (Corrosive, P. G. 3)

UN number

IMO information (Sea)

3264 Corrosive

IATA information (Aircraft)

Corrosive

Specific precautionary measures

Prior to transport, check the containers and loading to prevent

leakage or turnover and fall during transport.

Avoid direct sunshine and the high temperature (40 degree C and

more) and the high humidity.

15 Regulatory information

International

Follow all regulation in a place where the product is discharged or consumed.

Refer to regulatory information with regard to this substance in country

or in region where it is discharged or consumed.

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Domestic (Japan)

Explosive Control Law High Pressure Gas Safety Act

Fire Service Act

Poisonous and Deleterious Substances Control Act

Industrial Safety and Health Law

Hazardous items to report **Specified Chemicals Ordinance Organic Solvent Ordinance Indication Substances**

Chemical Substance Control Law

Targeted substances for a notice **Specified Chemical Substances** and Monitoring Chemical Substances.

Corrosive material

Unit product shipping

Bulk shipping

Priority Assessment Chemical Substances Thiourea Corrosive material

Ship Safety Act **Civil Aeronautics Act** Sea Pollution Prevention Act

PRTR Law

Not applicable

Not applicable

Not applicable (Non-Hazard product)

Not applicable Not applicable Not applicable Not applicable

Not applicable Applicable

Not applicable

Applicable Applicable Not applicable

Not applicable Not applicable

16 Other information

Note 1 Value This value is calculated from LD50 of raw material used for this product.

The described content herein is given based on the present data and information we can know at present, but no warranty for completeness and accuracy of any data, information and estimation. This product is developed for specific industrial application.

This product should not be used for purposes other than shown in the safety data sheet (SDS). Before using this product, carefully read and understand the safety attention stated in SDS or brochure. Do careful handling, since all chemical materials may present possible unknown hazards.

Final determination of sultability of this product is the sole responsibility of the user.