

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Iron

Manufacturer : STEK CO., LTD.

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Tel : 82-2-6235-7835

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2. HAZARDS IDENTIFICATION

Globally Harmonized System of Classification and Label ling of Chemicals (GHS)

Skin corrosive/irritant : 2

Severe eye damage/eye irritation : 2

Skin sensitization : 1

Label elements including precautionary statements



Signal word : Warning

Hazard statements :

-H315 : Causes skin irritation

-H317 : May cause an allergic skin reaction

-H319 : Causes severe eye irritation.

Precautionary statements :

Prevention

-P261 : Avoid breathing dust/fume/gas/mist/vapours/spray

-P264 : wash ..thoroughly after handling.

-P272 : Contaminated work clothing should not be allowed out of the workplace.

-**P280** : Wear protective gloves/protective clothing/eye protection/face protection.

Response

-**P302+P352** : IF ON SKIN : Wash with plenty of soap and water.

-**P305+P351+P338** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

-**P321** : Specific treatment (see ... on this label).

-**P332+P313** : If skin irritation occurs: Get medical advice/attention.

-**P333+P313** : If skin irritation or rash occurs: Get medical advice/attention.

-**P337+P313** : If eye irritation persists: Get medical advice/attention

-**P362+P364** : Remove contaminated clothing and wash before reuse.

Disposal

-**P501** : Dispose of contents/container to (in accordance with local/regional/national/international Regulation).

3. COMPOSITION ON INGREDIENTS

INDREDIENT	C.A.S. No.	%by Wt
Water	7732-18-5	65-75
Ammonium thioglycolate	5421-46-5	20-30
Glycerine	56-81-5	1-10
Perfume	-	1-5

4. FIRST AID MEASURES

FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact : Flush eyes with large amount of water. If signs/symptoms persist, get medical attention.

Skin Contact : Wash affected area with soap and water. If signs/symptoms develop, get medical attention

Inhalation : Remove person to fresh air. Get immediate medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention

5. FIRE FIGHTING MEASURES

Suitable extinguishing media :

SMALL FIRE : Use dry chemicals, CO₂, water spray or alcohol-resistant foam.

LARGE FIRE : Use water spray, water fog or alcohol-resistant foam

Specific hazards arising from the chemical :

Thermal decomposition may produce carbon monoxide and other toxic vapors.

Special protective equipment and precautions for firefighters :

Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, Vapors can burn in open or explode if confined. Vapors may be heavier than air, May travel long Distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be Combustible at temperatures below flash point. Fight fire from a safe distance/protected location. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of Burns/injuries. Use water sprat/fog for cooling. Avoid frothing/steam explosion. Burning liquid may floatwater. Although water soluble, may not be practical to extinguish fire by water dilution,.Notify Authorities immediately if liquid enters sewer/public waters.

6. ACCIDENTAL RELEASE MEASURES

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available.

7. HANDLING AND STORAGE

HANDLING

Avoid breathing gas. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Do not enter confined spaces unless adequately ventilated.

STORAGE

Do not apply direct flame to cylinder. Do not store cylinder in direct sun or expose it to heat above 120F. Do not drop or refill this cylinder. Keep away from heat. Sparks and flames.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

After Using, use with appropriate local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT(PPE)

Eye/Face Protection

Avoid eye contact with vapors, mist, or spray

The following eye protections are recommended : Safety Glasses with side shields

Skin Protection

Avoid skin contact.

Respiratory Protection

Avoid breathing gas..

Prevention of Swallowing

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade : Colorless, Phytoncide odor

General Physical Form : Liquid

Auto ignition temperature : No data available

Flash Point : >=95°C

Flammable Limit – LEL : Not applicable

Flammable Limit – UEL : Not applicable

Vapor Pressure : No data available

Specific Gravity : 1.05-1.15

pH : 5.5-6.5

Melting Point : No data available

Solubility in Water : Slouble

10. STABILITY AND REACTIVITY

Stability : Stable

Hazardous Polymerization : will not occur

Hazardous

decomposition or by-products : Thermal decomposition products include hydrogen fluoride, hydrogen chloride, carbon monoxide, carbon dioxide and chloride.

11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposures.**Inhalation exposure:**

Irritation, headache, sleepiness, dizziness, orientation loss.

Ingestion exposure:

Irritation, vomiting, headache, dizziness, orientation loss, pulmonary congestion.

Skin exposure:

May cause skin irritation. The liquid defats the skin.

Eye exposure:

May cause eye irritation.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute toxicity: No data available

Inhalation: No data available

Skin corrosion/irritation: May cause skin irritation.

serious eye damage/irritation: May cause eye irritation.

Respiratory sensitization: May cause irritation.

Skin sensitization: May cause irritation

Carcinogenicity: No Data Available.

Reproductive toxicity: No data available

Specific target organ systemic toxicity-single exposure:

It may effect on the central nerves.

High levels of steam inhalation may produce unconsciousness.

Specific target organ systemic toxicity-repeated exposure:

No Data Available

Aspiration hazardz:

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

Numerical measures of toxicity(Such as acute toxicity estimate):

No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : Not determined.

Chemical fate Information : Not determined..

13. DISPOSAL CONSIDERATIONS

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, State and local regulations.

14. TRANSPORT INFORMATION

UN NO : Not applicable

UN proper shipping name : Not applicable

Transport hazard class : Not applicable

Packing group (if applicable) : Not applicable

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and Rules.

15. REGULATORY INFORMATION

No data available

16. OTHER INFORMATION

STEK makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade.