



SAFETY DATA SHEET

Section 1 : Chemical Product and Company Identification

Cooling Water Corrosion and Scale Inhibitor

Name: **KURITA-GK-CHEMICAL CO.LTD**

Address Office :

TCH-Harderwijk. Wouterskampen 34,
3849BB Hierden. Netherlands. (Eroupe)

<http://www.kurita-gk-chemical.com/>

Section 2 : Hazards Identification

GHS Classification:

Health	Environmental	Physical
Skin Irritation, Category 2 Eye Irritation, Category 2B	NA	NA

GHS Label:

Pictograms



Signal word:

Warning

Hazard Statements	Precautionary Statements
Causes skin irritation Causes eye irritation	Wear protective gloves/eye protection/face protection IF SWALLOWED: rinse mouth. Do NOT induce vomiting IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Flush eyes with a large amount of water for 15 minutes. Seek medical attention IMMEDIATELY. Store in dry place. Stored in a closed container Store in a well-ventilated place. Keep container tightly closed Store in a well-ventilated place. Keep cool. Dispose of contents/container to an approved licensed contractor.



Section 3 : Composition/ Information on Ingredients

Ingredient Name	CAS Number	% wt
Sodium Hexametaphosphate	68915-31-1	20 – 30
Zinc Oxide	1314-13-2	0 - 10
Polymer	-	15 - 25
DI Water	7732-18-5	to 100
TOTAL		100

Section 4 : First Aid Measures

Inhalation : Remove to fresh air. Call a physician if any difficulties persist.

Eye Contact : Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid, get appropriate in-plant, paramedic or community medical support.

Skin Contact : Wash affected areas thoroughly with soap and water for at least 15 minutes. Seek medical attention if any irritation persists.

Ingestion : If swallowed, give 2 glasses of water to drink. DO NOT induce vomiting. After first aid, seek appropriate in plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 : Fire-Fighting Measures

Conditions of Flammability: Non-flammable

Means of Extinction

Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire.

Flash Point: Not applicable

Auto-ignition Temperature: Not applicable

Upper Flammable Limit: Not applicable

Lower Flammable Limit: Not applicable

Hazardous Combustible Products: Oxides of sodium and phosphorous

Special Fire Fighting Procedures:

Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Explosion Hazards: Not available

Section 6 : Accidental Release Measures

Leak / Spill

Wear appropriate personal protective equipment. Ventilate area. Stop or reduce leak if safe to do so. Sweep up material and place in appropriate container. Prevent material from entering sewers.

Deactivating Materials: Not available



Section 7 : Handling and Storage

Handling Procedures:

Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Storage Requirements

Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from possible contamination by other materials.

Section 8 : Exposure Controls/Personal Protection

Protective Equipment

Eyes

Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory

Use NIOSH/MSHA approved respiratory protection equipment.

Gloves

Impervious gloves of chemically resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Clothing

Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Footwear

No special footwear is required other than what is mandated at place of work.

Engineering Controls

Emergency shower and eyewash should be in close proximity.

Section 9 : Physical and Chemical Properties

Physical State	: Liquid
Color	: Colorless to light amber
Odor	: None
pH	: < 1
Specific Gravity	: 1.14 – 1.20
Solubility in water (20°C)	: Complete

Note: These physical properties are typical values for this product and are subject to change.

Section 10 : Stability and Reactivity

Stability	: Stable under normal conditions.
Incompatibility	: Not available
Hazardous Products of Decomposition	: Oxides of sodium and phosphorous
Polymerization	: Will not occur



Section 11 : Toxicology Information

Irritancy : Mild irritant
Sensitization : Not available

Chronic/Acute Effects :

Prolonged contact may cause drying or chapping of the skin. May sequester calcium and cause calcium phosphate deposits in the kidneys. Chronic ingestion or inhalation may induce systemic phosphorous poisoning. Liver damage, kidney damage, jaw/tooth abnormalities, blood disorders and cardiovascular effects can result.

Synergistic Materials : Not available

Animal Toxicity Data : LD50 (Oral, Rat): 3053mg/kg
LD50 (Oral, Mouse): 4320mg/kg

Carcinogenicity : Not considered to be carcinogenic by IARC, NTP, ACGIH, and OSHA.

Reproductive Toxicity : Not available

Teratogenicity : Not available

Mutagenicity : Not available

Section 12 : Ecological Information

Fish Toxicity:

No study has been conducted on environmental toxicity.

Biodegradability:

No study has been conducted on biodegradation.

Environmental Effects: Not available

Section 13 : Disposal Considerations

Waste Disposal

Dispose in accordance with all federal, provincial, and/or local regulations.

Section 14 : Transport Information

Proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are:

Proper Shipping Name PRODUCT IS NOT REGULATED FOR TRANSPORTATION

LAND TRANSPORT:

NATIONAL REGULATIONS NETHERLANDS

Comply with local regulations.

NATIONAL REGULATIONS, NETHERLANDS

Transport in accordance with the Central Motor Vehicles Rules 1989.

NATIONAL REGULATIONS NETHERLANDS

Transport in accordance with all government regulations, including "Regulation of the Minister of Health No.453/Man.Kes/PER/XI/1983 on Dangerous Substances", as applicable.



NATIONAL REGULATIONS, KOREA

Land transport should comply with the Ministerial Decree of Toxic Chemicals Control Law and the Regulations Regarding the Fire Fighting Techniques Standards, as applicable.

NATIONAL REGULATIONS, MALAYSIA

There are no regulations specifically governing the transport of chemicals. Use best practice.

NATIONAL REGULATIONS, PHILIPPINES

Transport in accordance with the following legislation (as applicable): Presidential Decree No. 1185, 1977 ("Fire Code of the Philippines") and implementing rules and regulations; Presidential Decree No. 856, 1975 ("Code of Sanitation"); Republic Act No 6969, 1990 ("Toxic Substances and Hazardous and Nuclear Wastes Control Act") and implementing rules and regulations.

NATIONAL REGULATIONS, SINGAPORE

Land Transport complies with the Environmental Pollution Control (Hazardous Substances) Regulations 1999, which follows the "Specification for Caution Labelling for Hazardous Substances" - Singapore Standard 286 (1984).

NATIONAL REGULATIONS, THAILAND

The product should be transported in accordance with "Hazardous Substances Acts B.E.2535", "Notification of Ministry of Public Health Re: Label and level of Toxicity of Dangerous Articles Which are Under the Responsibility of Food and Drug Administration 2534 (If applicable)" and "Notification of land transportation department, subject : label of truck which contain hazardous material, Notification date : 14 November B.E.2543 (14 November 2000)".

AIR TRANSPORT (ICAO/IATA):

Proper Shipping Name PRODUCT IS NOT REGULATED FOR TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO):

Proper Shipping Name PRODUCT IS NOT REGULATED FOR TRANSPORTATION

Section 15 : Regulatory Information
--

State Regulations: As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific components of this product.

NATIONAL REGULATIONS, EUROPE AND NETHERLANDS

European:

CLASSIFICATION: This product is not classified as hazardous (European Directive 88/379/EEC).

RISK PHRASES: None applicable.

Malaysian:

CLASSIFICATION: This product is not classified as hazardous.

RISK PHRASES: None applicable.

SAFETY PHRASES:



This product is not classified as hazardous, however, we recommend the following safety instructions:

S24/25 Avoid contact with skin and eyes.
S37/39 Wear suitable gloves and eye/ face
protection. S46 If swallowed, seek medical advice immediately and show this container or
label.

INTERNATIONAL REGULATIONS:

NFPA RATING:

Health: 1

Flammability: 0 Reactivity: 0

Other: -INTERNATIONAL

CHEMICAL CONTROL LAWS:

TOXIC SUBSTANCES CONTROL ACT (TSCA)

The chemical substances in this product are on the 8(b) Inventory (40 CFR 710) or are sold commercially under the polymer exemption (40 CFR 723.250).

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS) and are listed on the Australian Inventory of Chemical Substances (AICS).

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

All substances in this product are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

Section 16 : Other Information

Disclaimer:

USERS RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.