

Safety Data Sheet

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : REAGENT 320 (G-320)	
Manufacturer's Name: Nihon Parkerizing (M) Sdn. Bhd.	Emergency Telephone No.: 03-33410227,33410085,33410091
Address: No. 10, Jalan Keluli 2, Kawasan Perindustrian Bukit Raja, 41050 Klang, Selangor.	Email: razi@nihonparker.com norzila@nihonparker.com
Description:	Revision Date: 6 March 2022

SECTION 2 : HAZARD IDENTIFICATION

GHS Classification

Physical hazards:

- Explosives : Not applicable
- Flammable gases : Not applicable
- Flammable aerosols : Not applicable
- Oxidizing gases : Not applicable
- Gases under pressure : Not applicable
- Flammable liquids : Classification not possible
- Flammable solids : Not applicable
- Self-reactive substances and mixtures : Not applicable
- Pyrophoric liquids : Classification not possible
- Pyrophoric solids : Not applicable
- Self-heating substances and mixtures : Classification not possible
- Substances and mixtures, which in contact with water emit flammable gasses : Not classified
- Oxidizing liquids : Not classified
- Oxidizing solids : Not applicable
- Organic peroxides : Not applicable
- Corrosive to metals : Classification not possible

Health hazard :

- Acute toxicity – Oral : Not classified
- Acute toxicity – Dermal : Not classified
- Acute toxicity – Inhalation (Gases) : Not applicable
- Acute toxicity – Inhalation (Vapours) : Not classified
- Acute toxicity – Inhalation (Dusts and Mists) : Not classified

Skin Corrosion / Irritation : Not classified

Serious Eye Damage / Eye Irritation : Not classified

Respiratory sensitization : Category 1

Skin sensitization : Classification not possible

Germ Cell Mutagenicity : Classification not possible

Carcinogenicity : Classification not possible

Reproductive toxicity : Classification not possible

Specific target organ toxicity following (single exposure) :

Classification not possible

Specific target organ toxicity following (repeated exposure) :

Classification not possible

Aspiration toxicity : Classification not possible

Environmental hazards:

Hazardous to the aquatic environment acute hazard : Not classified

Hazardous to the aquatic environment chronic hazard : Classification not possible

GHS label elements:

Pictogram



Signal word : Danger

Hazard Statements:

H334 May cause allergic or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P285 In case of inadequate ventilation wear respiratory protection.

Response:

If experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

If INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage:

Store at a specified position in a cool indoor place.

Disposal:

Dispose of contents/container through a licensed disposal agent in accordance with local/regional/national/international regulations (to be specified).

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Division of chemical substance/mixture : Mixture

Chemical name or generic name : **REAGENT 320 (G-320)**

Ingredient	CAS Number	Content (%)
Acetic acid	64-19-7	0.1 – 1.0
Water	7732-18-5	90

SECTION 4 : FIRST AID MEASURES
Description of first aid measures:

INHALATION	<ul style="list-style-type: none"> - If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. - Call a POISON CENTRE or doctor/physician.
SKIN	<ul style="list-style-type: none"> - Remove all chemicals from the victim's skin with cloth or paper towels. - If necessary, wash the victim's skin with running water or shower. - If necessary, take off immediately all contaminated clothing. - If necessary, call a POISON CENTER or doctor/physician.
EYES	<ul style="list-style-type: none"> - If necessary, rinse with water several minutes. - Rinse cautiously with water. Remove contact lenses, if present and easy to do. - If necessary, get medical advice/attention.
SWALLOWED	<ul style="list-style-type: none"> - If necessary, rinse mouth. - If you feel unwell: call a POISON CENTRE or doctor/physician. Get medical advice/attention. - If victim is vomiting, keep calm; turn the head to the side so that the airways are not blocked.
PROTECTION FOR FIRST-AIDERS	<ul style="list-style-type: none"> - Personal protective equipment described in Section 8: Exposure control/Personal protection. - Ventilated area, if gases, vapours, mists or dusts occur.

SECTION 5 : FIRE FIGHTING MEASURES
Suitable Extinguishing Media:

- This product is not combustible.

Specific Extinguishing Method:

- Remove combustible materials from fire area.
- Move container from fire areas if possible to do so without hazard.
- Cool down container and the surrounding area by water, if container can't be moved.

Protection For Fire-Fighters:

- Fight a fire from windward to avoid inhalation of vapour and combustion gases.
- In firefighting, wear proper protective equipment (fire fighter protective clothing, respiratory protection) to avoid inhale and contact with the chemical.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

- Wear protective equipment regulated in Section 8: Exposure Control and Personal Protection to avoid contact to eyes or skin and inhalant gases, dust and fumes.
- Set up off-limits area to prevent secondary disaster.
- Use local exhaust to avoid inhalant gases, mist, vapour or dust for indoor work.

Environmental Precautions:

- Take caution to avoid possible environment impact at spill or disposal to natural water system
- In case of using waste water treatment equipment, call the administrator to avoid discharge the waste water involving the product.

Methods and Materials for Containment and Cleaning Up:

- Retrieve spilled material, using shovel or waste cotton.
- Dike to contain spill in case of large spill.
- Retrieve spilled material, collect and store in suitable.
- Spilled materials and contaminated substances should be disposed as regulated.

Secondary Disaster Prevention Measures:

- Set-up off-limits area to prevent secondary disaster.
- Call the section relating safety, hygiene, environment, disaster prevention etc.
- Take proper measures.

Recovery, Neutralization and Disposal:

- In case of small spill, retrieve spilled material using absorbent such as sawdust, soil, sand waste cotton
 - Dike to contain spill in case of large spill. After collect in suitable area, dispose as regulated.
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SECTION 7 : HANDLING AND STORAGE

Technical Measures:

- Take necessary steps to avoid contact and/or overexposure, for instant protective facilities, protective equipment regulated in Section 8: Exposure Control and Personal Protection.
- Handle in a well-ventilated place.

Local Ventilation/Total Ventilation:

- Take necessary ventilation regulated in Section 8: Exposure Control and Personal Protection.

Precautionary Statements:

- Do not handle this material if you have had allergic reaction in the past.
- Wear suitable Protective Equipment and handle in a well-ventilated place.
- Wash hand and faces after handling. Do not bring polluted protective equipment into the resting room.

Safe Handling Instructions:

- Avoid rough handling such as toppling, dropping, exposing shock, dragging.
- Call attention to workers about hazard information by posting SDS.

Avoid Contact Storage:

- Refer to compatible materials shown in Section 10 : Stability and Reactivity

Suitable Condition:

- Store at a specified position in a cool indoor place.
- In every use, keep container tightly closed.

Packing Material:

- Use product containers or a container having enough strength.

SECTION 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective Equipment :

- Make available hand wash and face wash in work place. After handling, wash hands and face.
- Use local exhaust, push-pull ventilation system or general ventilation to keep below specified level.

Occupational Exposure Limit (ACGIH)

Ingredient	TWA	STEL	Ceiling
Acetic Acid	10 ppm	15 ppm	2 mg/m ³

Occupational Exposure Limit (OSHA)

Ingredient	PEL	Ceiling
Acetic Acid	10 ppm/25 mg/m ³	-

Personal Protective Equipment**Respiratory Protection:**

- In case of inadequate ventilation wear proper respiratory protection.

Hand Protection:

- Wear chemical resistant gloves, if necessary

Eye Protection:

- If necessary, use proper eye protection.

Skin and Body Protection:

- If necessary, wear proper protective clothing.

Appropriate Hygiene Measures:

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash hands after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	: Liquid
Color	: Colorless
Odour	: No Information
pH	: 5.4
Melting Point/Freezing Point	: No Information
Initial Boiling Point and Boiling Range	: No Information
Flash Point	: No Information
Auto-Ignition Temperature	: No Information
Upper/Lower Flammability or Explosive Limits	: No Information
Vapour Pressure	: No Information
Vapour Density	: No Information
Evaporation Speed	: No Information
Specific Gravity(relative density)	: 1.0 (27°C)
Solubility in Water	: No Information
Dissolubility in Water	: Water soluble liquid
Solubility in Organic Solvent	: No Information
Dissolubility in Organic Solvent	: No Information

n-Octanol/Water

Partition Coefficient : -0.17

Decomposition Temperature : No Information

SECTION 10 : STABILITY & REACTIVITY

Stability/Possibility of Hazardous Reaction:

Stable under normal conditions.

Condition to Avoid:

No Information.

Incompatibility Materials:

No information.

Hazardous decomposition product:

No Information.

Others:

No Information.

SECTION 11 : TOXICOLOGICAL INFORMATION

Acute toxicity studies:

Acute toxicity studies are shown as below:

Acetic acid	LD50(oral)	Rat	33100 mg/kg
Acetic acid	LD50(oral)	Rat	3530 mg/kg
Acetic acid	LD50(dermal)	Rabbit	1060 mg/kg

Health Hazard Category List 1 :

Ingredients	Skin Corrosion/Irritation	Serious Eye Damage/ Eye Irritating	Respiratory Sensitization	Skin Sensitization	Germ Cell Mutagenicity	Reproductive Toxicity
Acetic acid	1	1	1	X	X	X
Water	X	X	X	X	X	X

Health Hazard Category List 2:

Ingredients	Specific Target Organ Toxicity-Single Exposure			Specific Target Organ Toxicity-Repeated Exposure		Aspiration Toxicity
	Category 1	Category 2	Category 3	Category 1	Category 2	
Acetic acid	Blood system	Testesrespiratory organs		X	X	X
Water	X	X	X	X	X	X

X : Classification not possible - : Not classified

Carcinogenicity

Ingredient	GHS Classification	IARC	NTP	EPA 1986	EPA 1996	EPA 2005	ACGIH	EU Directive
Acetic acid	X							
Water	X							

SECTION 12 : ECOLOGICAL INFORMATION
Hazardous to the aquatic environment
Acute toxicity

Sulfuric acid EC50 (48h) Crustacea (water flea) 47 mg/L

Ecotoxicity : No Information

Fish Toxicity : No Information

Effect on animal
and plants : No Information

Bioaccumulative
potential : No Information

Environmental Effect

Persistence and
degradability : No Information

Ozone Depleting
potential : No Information

Global Warming
potential : No Information

Mobility In Soil : No Information

Other Harmful
Effects : No Information

SECTION 13 : DISPOSAL CONSIDERATIONS

Residual Waste : Dispose of contents/container through a licensed disposal agent in accordance with local/regional/national/international regulations (to be specified)

Contaminated Container : Reuse containers after cleaning, dispose properly in accordance with related laws and local regulations.
and Contaminated
Packaging Remove contents thoroughly from a container before disposal of it.

SECTION 14 : TRANSPORT INFORMATION

- Make sure no leak in the container. Load steadily to avoid load shifting such as falling, dropping and damaged.

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- Follow the procedure specified in section 7 – Handling and Storage.
 - Regulatory information with regard to the transportation of this substances is describe as below:

UN Number : Not Applicable

- ❖ Land Transportation : Follow all regulations in the country or region.
- ❖ Marine Transportation : Follow the procedure specified by IMDG CODE. Do not discharge into the sea area.
- ❖ Air Transport : Follow the procedure specified by IATA REGULATION.

SECTION 15 : REGULATORY INFORMATION

- Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

SECTION 16 : ADDITIONAL INFORMATION**Other Precautions:**

For industrial use only.

USERS RESPONSIBILITY:

This product safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

SECRECY OBLIGATION:

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