

Safety Data Sheet

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : TITRANT 230 (T-230)

Manufacturer's Name: Nihon Parkerizing (M) Sdn. Bhd.	Emergency Telephone No.: 03-33410227,33410085,33410091
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Address: No. 10, Jalan Keluli 2, Kawasan Perindustrian Bukit Raja, 41050 Klang, Selangor.	Email: razi@nihonparker.com norzila@nihonparker.com
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Description:	Revised Date: 8 March 2022
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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 : Not classified
- Pyrophoric solids : Not applicable
- Self-heating substances and mixture: Not classified
- Substances and mixtures, which in contact with water emit flammable gasses : Not applicable
- Oxidizing liquids : Classification not possible
- Oxidizing solids : Not applicable
- Organic peroxides : Not applicable
- Corrosive to metals : Classification not possible

Hazardous property for the health :

- 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 : Classification not possible
Serious Eye Damage / Eye Irritation : Classification not possible
Respiratory sensitization : Classification not possible
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 : No signal word

Hazard Statements:

For industry use only.

At this moment, it does not come under the hazard definition of GHS. Follow the precautionary statements below.

Precautionary Statements**Prevention:**

If necessary, wear masks, chemical-resistant gloves or protective clothing to avoid accidental ingestion, contact, and inhalation.

Response:

In case of accidental ingestion, contact, inhalation, take steps such as to rinse mouth or wash the affected area, if necessary.

Take additional steps such as to get medical advice / attention, if necessary.

Storage:

Store at specified position in a cool indoor place.

Disposal:

Dispose of contents/container through a licensed disposal agent in accordance

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Division of chemical substance/mixture : Mixture

 Chemical name or generic name : **TITRANT 230 (T-230)**

Ingredient(s)	CAS Number	Content (%)
Ethylenediaminetetraacetic acid, disodium salt	139-33-3	0.1 - 1
Water	7732-18-5	-

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

If inhaled	<ul style="list-style-type: none"> - If feel unwell, remove victim to fresh air and keep at rest position comfortable for breathing. - Call a POISON CENTER or doctor/physician.
If on 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, call a POISON CENTER or doctor/physician. - If necessary, remove/take off immediately all contaminated clothing.
If in eyes	<ul style="list-style-type: none"> - If necessary, rinse with water. - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. - If necessary, get medical advice/attention immediately.
If swallowed	<ul style="list-style-type: none"> - If necessary, rinse mouth. - If you feel unwell: Call a POISON CENTER or doctor/physician. Get medical advice/attention. - If the victim is vomiting, 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.

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- Cool down container and the surrounding area by water, if container can't be moved.
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Protection For Fire-Fighters:

- 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 environmental 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.

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.
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Local Ventilation/Total Ventilation:

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

Precautionary Statements:

- Wash hand and faces after handling. Do not bring polluted protective equipment into the resting room.
- Wear suitable protective equipment and handle in a well-ventilated place.

Safe Handling Instructions:

- Avoid rough handling such as toppling, dropping, exposing shock, dragging.
- Take a measure to 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 specific 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.
- If necessary, use local exhaust, push-pull ventilation system or general ventilation to keep below specified level.

Personal Protective Equipment**Respiratory Protection:**

- If necessary, wear proper respiratory protection.

Hand Protection:

- If necessary, wear chemical resistant gloves.

Eye Protection:

- If necessary, use proper eye protection

Skin and Body Protection:

- If necessary, wear chemical resistant protective clothing.

Appropriate Hygiene Measures:

- Wash hands, face thoroughly 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** : No Information**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** : No Information**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

Ethylenediaminetetraacetic acid, disodium salt	LD50(oral)	Rat	2000mg/kg
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Health hazards category list 1:

Ingredients	Skin Corrosion/Irritation	Serious Eye Damage/ Eye Irritating	Respiratory Sensitization	Skin Sensitization	Germ Cell Mutagenicity	Reproductive Toxicity
Ethylenediaminetetraacetic acid, disodium salt	X	X	X	X	X	X
Water	X	X	X	X	X	X

Health hazards 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	
Ethylenediaminetetraacetic acid, disodium salt	X	X	X	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
Ethylenediaminetetraacetic acid, disodium salt	X							
Water	X							

SECTION 12 : ECOLOGICAL INFORMATION**Hazardous to the aquatic environment**

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 and Contaminated Packaging	:	Reuse containers after cleaning, dispose properly in accordance with related laws and local regulations. 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.
- 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.

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- ❖ 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:

This document contains trade secrets, know-how, and other intellectual properties of the manufacturer. The purposes of this document are primarily to disclose information for occupational safety and health, to respond to requirement from relevant laws, ordinances, regulations and requirements from public authorities. Illegal use of any part of this document may from breach manufacture's intellectual properties and subject to compensation for damages.
