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**Safety Data Sheet****1. Chemical product and company identification****Product name** : 2003 Pesticides Standards Mix III 22 Mix for JP Water Quality**SDS code** : V5-07**Company/undertaking identification** :

HAYASHI PURE CHEMICAL IND.,LTD.

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URL : <https://www.hpc-j.co.jp/>**Emergency number** : 06-6910-7305**Recommended use** : For research and experimental use only.**Restrictions on use** : Do not use for any purpose other than research and experiment. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc. Do not use in the environment.**2. Hazards identification****GHS classification**

Physical hazards	Explosives	classification not possible	
	Flammable gases	No classification	
	Aerosol	classification not possible	
	Oxidizing gases	No classification	
	Gases under pressure	No classification	
	Flammable liquids	Category 2	
	Flammable solids	No classification	
	Self-reactive substances and mixtures	classification not possible	
	Pyrophoric liquids	classification not possible	
	Pyrophoric solids	No classification	
	Self-heating substances and mixtures	classification not possible	
	Substances and mixtures which in contact with water emit flammable gases	classification not possible	
	Oxidizing liquids	classification not possible	
	Oxidizing solids	No classification	
	Organic peroxides	classification not possible	
	Corrosive to metals	classification not possible	
	Desensitized explosives	No classification	
	Health hazards	Acute toxicity (oral)	classification not possible
		Acute toxicity (dermal)	Category 3
		Acute toxicity (inhalation:gas)	classification not possible
Acute toxicity (inhalation:vapors)		Category 4	
Acute toxicity (inhalation:dust/mist)		classification not possible	
Skin corrosion/irritation		classification not possible	
Serious eye damage/eye irritation		Category 2	
Respiratory sensitization		classification not possible	
Skin sensitization		classification not possible	
Germ cell mutagenicity		classification not possible	
Carcinogenicity		classification not possible	
Reproductive toxicity	Category 1B		
Specific target organ toxicity (single exposure)	Category 1 (central nervous system, respiratory system)		

	Specific target organ toxicity (single exposure)	Category 2 (visual organ, systemic toxicity)
	Specific target organ toxicity (repeated exposure)	Category 2 (blood system, central nervous system, respiratory system, liver, kidneys, visual organ)
	Aspiration hazard	classification not possible
Environmental hazards	Hazardous to the aquatic environment, short-term (acute)	Category 2
	Hazardous to the aquatic environment, long-term (chronic)	classification not possible
	Hazardous to the ozone layer	classification not possible

Hazard pictograms (GHS JP)



GHS02



GHS06



GHS08

Signal word (GHS JP)

: Danger

Hazard statements (GHS JP)

: Highly flammable liquid and vapor (H225)  
 Toxic in contact with skin (H311)  
 Causes serious eye irritation (H319)  
 Harmful if inhaled (H332)  
 May damage fertility or the unborn child (H360)  
 Causes damage to organs (central nervous system, respiratory system) (H370)  
 May cause damage to organs (visual organ, systemic toxicity) (H371)  
 May cause damage to organs (blood system, central nervous system, respiratory system, liver, kidneys, visual organ) through prolonged or repeated exposure (H373)  
 Toxic to aquatic life (H401)

Precautionary statements (GHS JP)

Prevention

: Obtain special instructions before use. (P201)  
 Do not handle until all safety precautions have been read and understood. (P202)  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)  
 Keep container tightly closed. (P233)  
 Ground and bond container and receiving equipment. (P240)  
 Use explosion-proof electrical/ventilating/lighting equipment. (P241)  
 Use only non-sparking tools. (P242)  
 Take action to prevent static discharges. (P243)  
 Do not breathe dust/fume/gas/mist/vapors/spray. (P260)  
 Wash hands, forearms and face thoroughly after handling. (P264)  
 Do not eat, drink or smoke when using this product. (P270)  
 Use only outdoors or in a well-ventilated area. (P271)  
 Avoid release to the environment. (P273)  
 Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing (P304+P340)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)  
 IF exposed or concerned: Call a POISON CENTER or doctor. (P308+P311)  
 Get medical advice/attention if you feel unwell. (P314)  
 If eye irritation persists: Get medical advice/attention. (P337+P313)  
 Take off immediately all contaminated clothing and wash it before reuse. (P361+P364)  
 In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Storage

: Store in a well-ventilated place. Keep cool. (P403+P235)  
 Store locked up. (P405)

Disposal

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. (P501)

### 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	
Acetonitrile	≥94%	CH3CN	(2)-1508	Existing Chemical Substance	75-05-8
Methanol	5%	CH3OH	(2)-201	Existing Chemical Substance	67-56-1
2,4-D	About 0.0013%	C8H6Cl2O3	(3)-927	4-(4)-234	94-75-7
Asulam	About 0.0013%	C8H10N2O4S	(9)-2098	Existing Chemical Substance	3337-71-1
Azoxystrobin	About 0.0013%	C22H17N3O5	-	-	131860-33-8
Bensulfuron methyl	About 0.0013%	C16H18N4O7S	-	8-(2)-1338	83055-99-6
Bensulide	About 0.0013%	C14H24NO4PS3	(3)-3373	4-(9)-185	741-58-2
Bentazone	About 0.0013%	C10H12N2O3S	-	8-(7)-44	25057-89-0
Carbaryl	About 0.0013%	C12H11NO2	(4)-387	Existing Chemical Substance	63-25-2
Carbendazim	About 0.0013%	C9H9N3O2	(5)-465	8-(2)-746	10605-21-7
Carbofuran	About 0.0013%	C12H15NO3	(5)-5540	8-(4)-935	1563-66-2
Dalapon (2,2-DPA)	About 0.0013%	C3H4Cl2O2	(2)-3913	-	75-99-0
Diuron (DCMU)	About 0.0013%	C9H10Cl2N2O	(3)-2194	4-(13)-42	330-54-1
Dymron	About 0.0013%	C17H20N2O	(3)-3227	Existing Chemical Substance	42609-52-9
Flazasulfuron	About 0.0013%	C13H12F3N5O5S	-	8-(2)-1393	104040-78-0
Iprodione	About 0.0013%	C13H13Cl2N3O3	-	8-(2)-1131	36734-19-7
Mecoprop	About 0.0013%	C10H11ClO3	-	4-(4)-211	7085-19-0
Probenazole	About 0.0013%	C10H9NO3S	(5)-3433	Existing Chemical Substance	27605-76-1
Siduron	About 0.0013%	C14H20N2O	(3)-2485	4-(13)-97	1982-49-6
Triclopyr	About 0.0013%	C7H4Cl3NO3	-	-	55335-06-3
Tricyclazole	About 0.0013%	C9H7N3S	-	8-(3)-520	41814-78-2
Oxine-copper	About 0.0006%	C18H12CuN2O2	(5)-805	1-(1)-161	10380-28-6
Halosulfuron methyl	About 0.0013%	C13H15ClN6O7S	-	8-(2)-1594	100784-20-1
Carpropamid	About 0.0013%	C15H18Cl3NO	-	-	104030-54-8

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

### 4. First aid measures

#### First aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
Get immediate medical advice/attention.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing.  
Gently wash with plenty of soap and water.  
Get immediate medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get immediate medical advice/attention.

- First-aid measures after ingestion : Do NOT induce vomiting.  
Rinse mouth.  
Get immediate medical advice/attention.

## 5. Fire fighting measures

- Suitable extinguishing media : Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.  
Fire hazard : Extremely flammable liquid and vapor.  
Explosion hazard : Danger of the steam explosion in indoor, outdoor, sewer.  
May induce explosion of containers by heating.  
Hazardous decomposition products in case of fire : In case of fire, product may produce irritative or toxic fumes/gases.  
Firefighting instructions : If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.  
In the case of peripheral fire, quickly remove movable containers to safe places.  
If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.  
Avoid (reject) fire-fighting water to enter environment.  
Even after extinguishing fire, thoroughly cool containers by using plenty of water.  
Protection during firefighting : Wear appropriate fire-resistant clothing including self contained-compressed air breathing apparatus.

## 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

- General measures : Before entering, ventilate the area.  
Do not let unauthorized persons come close to the area.  
Immediately place the leakage area in isolation, with taking proper distances for all directions.  
Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

### Environmental precautions

- Environmental precautions : Avoid release to the environment.  
Prevent entry to sewers and public waters.

### Methods and Equipment for Containment and Cleaning up

- Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.  
Collect leaking and spilled liquid in sealable containers as far as possible.  
Wash out the spilled area with large amounts of water.

## 7. Handling and storage

### Handling

- Technical measures : Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing.  
Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.  
Precautions for safe handling : Do not eat, drink or smoke when using this product.  
Thoroughly wash your hands and gargle after handling.  
Ensure good ventilation of the work station.  
Do not contact, breathe or swallow.  
Take precautionary measures against static discharge.  
Use explosion-proof equipment.  
Prevents handling of incompatible substances or mixtures : Avoid prolonged or repeated exposure.

**Storage**

Storage conditions	: Store locked up. Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources.
Material used in packaging/containers	: Light shielding airtight container.
Technical measures	: Comply with applicable regulations.
Storage temperature	: Freeze: -20°C

**8. Exposure controls / Personal protection equipment**

Exposure limit values	
<b>Acetonitrile</b>	
Exposure limits (ACGIH)	TWA 20 ppm, STEL - (Skin)
<b>Methanol</b>	
Japan administration level	200ppm
Exposure limits (JSOH)	200ppm(260mg/m <sup>3</sup> )(skin)
Exposure limits (ACGIH)	TWA 200 ppm, STEL 250 ppm (Skin)

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

**Protective equipment**

Respiratory protection	: Gas mask for organic gases
Hand protection	: Impervious protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection	: Impervious aprons, Impervious work clothing, Impervious long boots

**9. Physical and chemical properties**

Physical state	: Liquid
Appearance	: Liquid
Color	: No data available
Odor	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Density	: ≈ 0.8 g/cm <sup>3</sup>
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosive limits (vol %)	: No data available
Viscosity, kinematic	: No data available
Particle characteristics	: No data available

**10. Stability and reactivity**

Reactivity	: No data available
Chemical stability	: Stable under normal handling conditions.

Possibility of hazardous reactions	:	Reacts with strong oxidizing agents to pose a risk of fire and explosion. Reacts with acidic aqueous solution and basic aqueous solution to evolve toxic fumes. Corrodes plastics and rubbers. Mixture with hydrogen peroxide explodes due to impact. May corrode aluminium and lead.
Conditions to avoid	:	Sunlight, heat. Ignition sources such as spark, flame and static electricity. Contact with oxidizing agents, reducing agents, acids, bases, metals, vinyl chloride resin, polystyrene, polycarbonate, etc.
Incompatible materials	:	Oxidizing agents, Reducing agents, Acids, Bases, Metals, Vinyl chloride resin, Polystyrene, Polycarbonate, etc
Hazardous decomposition products	:	Nitrogen oxides, Hydrogen cyanide, Formaldehyde

## 11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

<b>As a product</b>	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	Category 3
Acute toxicity (inhalation)	vapors:Category 4 Gases:classification not possible dust, mist:classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	Category 1B
STOT-single exposure	Category 1 Category 2
STOT-repeated exposure	Category 2
Aspiration hazard	classification not possible
<b>Acetonitrile</b>	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	Category 3
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	Category 4
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2
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
STOT-single exposure	Category 1
STOT-repeated exposure	Category 2
Aspiration hazard	classification not possible
<b>Methanol</b>	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	No classification
Carcinogenicity	classification not possible
Reproductive toxicity	Category 1B

<b>Methanol</b>	
STOT-single exposure	Category 1 Category 3 (Narcosis)
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible

## 12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

<b>As a product</b>	
Hazardous to the aquatic environment, short-term (acute)	Category 2
Hazardous to the aquatic environment, long-term (chronic)	classification not possible
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
<b>Acetonitrile</b>	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment - Chronic Hazard	No classification
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible
<b>Methanol</b>	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment - Chronic Hazard	No classification
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible

## 13. Disposal considerations

Ecology - waste materials	:	With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor.
Contaminated container and packaging	:	Empty the packaging completely prior to disposal. Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

## 14. Transport information

### International Regulations

#### Transport by sea(IMDG)

UN-No. (IMDG)	:	1992
Proper Shipping Name (IMDG)	:	FLAMMABLE LIQUID, TOXIC, N.O.S.
Packing group (IMDG)	:	II
Transport hazard class(es) (IMDG)	:	3 (6.1)
Hazard labels (IMDG)	:	3,6.1
Class (IMDG)	:	3
Subsidiary hazard (IMDG)	:	6.1
Special provision (IMDG)	:	274
Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T7

Tank special provisions (IMDG)	: TP2, TP13
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Flammable toxic liquid which is not specified by name in this class or, on account of its characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 131
<b>Air transport(IATA)</b>	
UN-No. (IATA)	: 1992
Proper Shipping Name (IATA)	: Flammable liquid, toxic, n.o.s.
Packing group (IATA)	: II
Transport hazard class(es) (IATA)	: 3 (6.1)
Hazard labels (IATA)	: 3, 6.1
Class (IATA)	: 3
Subsidiary hazards (IATA)	: 6.1
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3
ERG code (IATA)	: 3HP
<b>Marine pollutant</b>	: Not applicable
<b>Regulations in Japan</b>	
Regulatory information by sea	: Conform to the provisions of the Ship Safety Law.
Regulatory information by air	: Conform to the provisions of the Civil Aeronautics Law.
MFAG-No	: 131
<b>Special transport precautions</b>	: When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

## 15. Regulatory information

### National law

Chemical Substances Control Law	: Priority Assessment Chemical Substances (Law Article 2, Para.5)
Industrial Safety and Health Law	: Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2, Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9) Acetonitrile (Ordinance number : 15) Methanol (Ordinance number : 560) Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
Japanese Poisonous and Deleterious Substances Control Law	: Deleterious Substances (Designated Order Art.2) Organic cyanide compounds and preparations containing it (except for following (1)-(169))
Water Pollution Prevention Law	: Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1) Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3)
Fire Service Law	: Group 4 - Flammable liquids - 1st Class petroleums - soluble (Law Art.2 Para.7, Attached Table 1, Group 4)
Air Pollution Control Law	: Specified substances (Article 17, Paragraph 1 of the Law, Article 10 of the Enforcement Ordinance) Hazardous Air Pollutants (Central Environment Council Report No. 9) Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice to Prefectures)
Foreign Exchange and Foreign Trade Control Act	: Export Trade Control Ordinance appendix 1-16 Export Approval (Export Trade Control Order, Attached Table 2)
Ship Safety Act	: Flammable liquids (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	: Flammable liquids (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)



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Port Regulation Law	:	Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)
Road Act	:	Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Public Corp.)
Waste Management on Public Cleansing Law	:	Specially Controlled Industrial Wastes (Act Art.2, para 5, Enforcement Order Art.2-4)
Waterworks Law	:	Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003)
Sewerage Law	:	Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable
Labor Standards Act	:	Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Notification No.36 of 1978)
Soil Contamination Countermeasures Law	:	Designated Hazardous Substances (Act Art.2 Para.3, Enforcement Order Art.1)

## 16. Other information

Data sources	:	Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).
Other information	:	The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.