

SAFETY DATA SHEET



LENACIL 80 WP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.2	2022/08/04	50000147	Date of first issue: 2018/05/01

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : LENACIL 80 WP

Other means of identification : LENAAR 80WP (M)
VARAPE (M)
VENZAR (NOMINAL) (M)

Supplier's company name, address and phone number

Company name of supplier : FMC Chemicals KK

Address : 1-1, Otemachi 1-chome
Chiyoda-ku, Tokyo
100-0004 Japan

E-mail address : SDS-Info@fmc.com

Emergency telephone : For leak, fire, spill or accident emergencies, call:
045-224-4303 (HAZMAT Emergency Response Centre)

Medical emergency:
03 5208 1010

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as herbicide only.

Restrictions on use : Use as recommended by the label.

2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Warning

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Hazard Statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS/ISHL number
lenacil (ISO)	2164-08-1	80	5-914
sodium diisopropyl-naphthalenesulphonate	1322-93-6	$\geq 1 - < 2.5$	4-473

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Get medical attention if irritation develops and persists.
Wash off with soap and water.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

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Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders	:	Avoid inhalation, ingestion and contact with skin and eyes.
Notes to physician	:	Treat symptomatically. It may be helpful to show this safety data sheet to physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO ₂) Dry chemical Dry powder Regular foam
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NO _x)
Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Do not touch or walk through the spilled material. Avoid dust formation. If it can be safely done, stop the leak. Use personal protective equipment.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Never return spills in original containers for re-use. Pick up and transfer to properly labeled containers without creating dust. Keep in suitable, closed containers for disposal.

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7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Avoidance of contact : Strong oxidizing agents
Strong acids and strong bases

Hygiene measures : Wash hands before breaks and at the end of workday.

Storage

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : Keep in a dry place.
No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Reference concentration / Permissible concentration	Basis
kaolin	1332-58-7	OEL-C (Respirable dust)	0.03 mg/m ³ (Silica)	JP OEL JSOH
	Further information: Respirable crystalline silica and respirable dust consist of particles captured by the following collection efficiency, R (dae). $R(dae) = 0.5[1 + \exp(-0.06dae)] \cdot [1 - F(x)]$ dae: aerodynamic diameter of particle (μm), F(x): cumulative distribution function of the standardized normal variable $x = \ln(dae/\Gamma) / \ln(\Sigma)$, ln natural logarithm, $\Gamma = 4.25 \mu m$, $\Sigma = 1.5$, Substance whose OEL is set based on non-carcinogenic health effects. See III, Group 1: carcinogenic to humans			
		OEL-M (Respirable dust)	0.5 mg/m ³	JP OEL JSOH
Further information: Class 1 Dust				

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		OEL-M (Total dust)	2 mg/m3	JP OEL JSH
	Further information: Class 1 Dust			
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH

Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Filter type : Particulates type
- In the case of dust or aerosol formation use respirator with an approved filter.
- Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin and body protection : Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Plan first aid action before beginning work with this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : wettable powder
- Color : off-white
- Odor : none
- Odor Threshold : not determined
- Melting point/range : Decomposes before melting.
- Flammability (solid, gas) : The product is not flammable.
- Flash point : Not applicable

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Self-ignition	:	ca. 288 °C
Decomposition temperature	:	> 270 °C
pH	:	7.0 (25 °C) Concentration: 10 g/l
Bulk density	:	555 kg/m ³
Solubility(ies)	:	
Water solubility	:	0.003 g/l practically insoluble (25 °C)
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	Not applicable
Density and / or relative density	:	
Relative density	:	Not available for this mixture.
Explosive properties	:	Not explosive
Oxidizing properties	:	The product is not oxidizing.

10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	:	Exposure to air or moisture over prolonged periods. Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon oxides Nitrogen oxides (NO _x)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
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Method: OECD Test Guideline 423
GLP: yes
Remarks: Information source: Internal study report
(Data on the product itself)

Acute inhalation toxicity : LC50 (Rat): > 4.96 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Information source: Internal study report
(Data on the product itself)

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Information source: Internal study report
(Data on the product itself)

Components:

lenacil (ISO):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 423
Remarks: Information source: Internal study report

Acute inhalation toxicity : LC50 (Rat): > 5.12 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Information source: Internal study report

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Information source: Internal study report

sodium diisopropylnaphthalenesulphonate:

Acute oral toxicity : LD50 (Rat, female): > 300 - 2,000 mg/kg
Method: OECD Test Guideline 423

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes
Remarks : Information source: Internal study report
(Data on the product itself)

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Components:

lenacil (ISO):

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Information source: Internal study report

sodium diisopropylnaphthalenesulphonate:

Species	:	reconstructed human epidermis (RhE)
Method	:	OECD Test Guideline 431
Result	:	Corrosive after 4 hours or less of exposure

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes
Remarks	:	Information source: Internal study report (Data on the product itself)

Components:

lenacil (ISO):

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Remarks	:	Minimal effects that do not meet the threshold for classification. Information source: Internal study report

sodium diisopropylnaphthalenesulphonate:

Species	:	Bovine cornea
Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 437

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type	:	Buehler Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406

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Result : Animal test did not cause sensitization by skin contact.
Remarks : Information source: Internal study report
(Data on the product itself)

Components:

lenacil (ISO):

Routes of exposure : Skin contact
Species : Guinea pig
Assessment : Not a skin sensitizer.
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.
Remarks : Information source: Internal study report

sodium diisopropylnaphthalenesulphonate:

Test Type : Direct Peptide Reactivity Assay (DPRA)
Method : OECD Test Guideline 442C
Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

Components:

lenacil (ISO):

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

sodium diisopropylnaphthalenesulphonate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Not classified based on available information.

Components:

lenacil (ISO):

Result : negative

Reproductive toxicity

Not classified based on available information.

Components:

lenacil (ISO):

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.
Animal testing did not show any effects on fetal development.

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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

lenacil (ISO):

Species	: Rat
Application Route	: Oral
Exposure time	: 90 d
Method	: OECD Test Guideline 408
Symptoms	: Liver effects

Species	: Mouse
Application Route	: Oral
Exposure time	: 90 d
Method	: OECD Test Guideline 408
Symptoms	: increased liver weight

Species	: Dog
Application Route	: Oral
Exposure time	: 90 d
Method	: OECD Test Guideline 408
Symptoms	: Liver effects, Bladder effects

sodium diisopropylnaphthalenesulphonate:

Remarks : No data available

Aspiration toxicity

Not classified based on available information.

Components:

lenacil (ISO):

The substance does not have properties associated with aspiration hazard potential.

Further information

Product:

Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 2.63 mg/l

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- Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Information source: Internal study report
(Data on the product itself)
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 3.53 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Information source: Internal study report
(Data on the product itself)
- Toxicity to algae/aquatic plants : ErC50 (*Selenastrum capricornutum* (green algae)): 0.0084 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: (Data on the product itself)
Information source: Internal study report
- Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): > 100 µg/b
Exposure time: 48 h
Method: OECD Test Guideline 214
Remarks: Contact
(Data on the product itself)
Information source: Internal study report
- LD50 (*Apis mellifera* (bees)): > 100 µg/b
Exposure time: 48 h
Method: OECD Test Guideline 213
Remarks: Oral
(Data on the product itself)
Information source: Internal study report

Components:

lenacil (ISO):

- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 2 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Information source: Internal study report
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 8.4 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: Information source: Internal study report
- Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 0.016 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201
Remarks: Information source: Internal study report

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ErC50 (Navicula pelliculosa (Diatom)): 0.096 mg/l
Exposure time: 72 h

ErC50 (Lemna gibba (gibbous duckweed)): 0.029 mg/l
Exposure time: 7 d
Method: OECD Test Guideline 221
Remarks: Information source: Internal study report

NOEC (Lemna gibba (duckweed)): 0.0088 mg/l
Exposure time: 7 d

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.16 mg/l
Exposure time: 90 d
Method: OECD Test Guideline 210
Remarks: Information source: Internal study report

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.48 mg/l
Exposure time: 21 d
Remarks: Information source: Internal study report

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207
Remarks: Information source: Internal study report

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): >1 µg/bee
Exposure time: 48 h
Method: US EPA Test Guideline OPP 141-1
Remarks: Information source: Internal study report

LD50 (Apis mellifera (bees)): 25 µg/bee
Exposure time: 48 h
Method: US EPA Test Guideline OPP 141-1
Remarks: Information source: Internal study report

LD50 (Anas platyrhynchos (Mallard duck)): > 2,000 mg/kg
Method: US EPA Test Guideline OPP 71-1
Remarks: Information source: Internal study report

LC50 (Colinus virginianus (Bobwhite quail)): > 5,000 mg/kg
Exposure time: 5 d
Method: US EPA Test Guideline OPP 71-2
Remarks: Information source: Internal study report

sodium diisopropylnaphthalenesulphonate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 72 mg/l
Exposure time: 48 h
Test Type: static test

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Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 10 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Persistence and degradability

Components:

lenacil (ISO):

Biodegradability : Result: Not readily biodegradable.
Remarks: Substance/product is moderately persistent in the environment.

sodium diisopropylnaphthalenesulphonate:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 21 d
Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

lenacil (ISO):

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 1.70 (25 °C)

sodium diisopropylnaphthalenesulphonate:

Partition coefficient: n-octanol/water : log Pow: > 2.6 (20 °C)

Mobility in soil

Components:

lenacil (ISO):

Distribution among environmental compartments : Medium: Soil
Remarks: Moderately mobile in soils

Hazardous to the ozone layer

Not applicable

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Other adverse effects

Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information : See product label for additional application instructions relating to environmental precautions.
No other ecological effects to be specially mentioned.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Lenacil)
Class : 9
Subsidiary risk : ENVIRONM.
Packing group : III
Labels : 9 (ENVIRONM.)

IATA-DGR

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Lenacil)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 956
Packing instruction (passen-

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ger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lenacil)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

Refer to section 15 for specific national regulation.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Not applicable

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Substances Subject to be Indicated Names

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Until March 31st, 2023

Not applicable

From April 1st, 2023

Not applicable

High Pressure Gas Safety Act

Not applicable

Explosive Control Law

Not applicable

Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation : Not classified as noxious liquid substance

Pack transportation : Classified as marine pollutant

Water Pollution Control Law

Designated substance (Law Art. 2-4, Enforcement Order Art. 3-3)

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Waste Disposal and Public Cleansing Law

Industrial waste

The ingredients of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. lenacil (ISO) Perlite
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

16. OTHER INFORMATION

Contact department/person for inquiry in a risk of acute poisoning: Japan Poison Information Centre Poison #110

Citizen's Telephone	Osaka 072-727-2499 (Free Information Fee) 24 hours a day, 365 days a year Tsukuba 029-852-9999 (free information fee) 365 days 9-21 o'clock
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Pay-in Telephone for Medical Institutions	Osaka 072-726-9923 (2,000 yen per case) 24 hours a day, 365 days a year Tsukuba 029-851-9999 (2,000 yen per case) 365 days 9-21 o'clock
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Date format	:	yyyy/mm/dd
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Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
JP OEL JSOH	:	Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits
ACGIH / TWA	:	8-hour, time-weighted average

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JP OEL JSOH / OEL-M : Occupational Exposure Limit-Mean
JP OEL JSOH / OEL-C : Occupational Exposure Limit-Ceiling

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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