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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PERFECT SEAL CS-222

Manufacturer

Company : TOPLA Co., Ltd

Supplier : GHI Co., Ltd.

Address : 16-gil, 6 Jinjang-Dong Bukgu Ulsan, South Korea

Telephone : +82-52-298-2259 Emergency telephone number : +82-52-294-0250 Telefax : +82-52-298-2550

Recommended use of the chemical and restrictions on use

Recommended use : Construction materials and additives

2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage/eye irri-

tation

: Category 2A

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms :

(!)

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

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

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.



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P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ at-

ention.

P363 Wash contaminated clothing before reuse.

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

Chemical nature : Silicone

Sealant

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Methyltri(ethylmethylketoxime)silane	22984-54-9	>= 3 - < 5
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 20 - < 30
Vinyltri (methylethylketoxime) silane	2224-33-1	>= 1 - < 1.5
3-Aminopropyltriethoxysilane	919-30-2	>= 0.5 - < 1
Methyltri(ethylmethylketoxime)silane isomers	Not Assigned	>= 0.1 - < 0.5
and oligomers		
Limestone	1317-65-3	>=40 - < 50

4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty

of water.

Remove contaminated clothing and shoes.

Get medical attention.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.



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In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention.

If swallowed : If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

May cause an allergic skin reaction.

Causes serious eye irritation.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment

when the potential for exposure exists.

Notes to physician : Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod: :

ucts

Carbon oxides Silicon oxides

Formaldehyde

Nitrogen oxides (NOx)

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Follow safe handling advice and personal protective equip- ment recommendations.



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Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not get on skin or clothing.

Do not swallow. Do not get in eyes.

Handle in accordance with good industrial hygiene and safety

practice.

Keep away from water. Protect from moisture.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage : Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated middle	64742-46-7	TWA (Mist)	5 mg/m3	KR OEL
Limestone	1317-65-3	TWA	10 mg/m3	KR OEL



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Engineering measures : Processing may form hazardous compounds (see section

10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

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 : Combined particulates and organic vapour type

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the

end of workday.

Eye protection : Wear the following personal protective equipment:

Safety goggles

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may

require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Colour : White, Black, Grey, Ivory etc.

Odour : slight

Odour Threshold : No data available

pH : Not applicable



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Melting point/freezing point : No data available

Initial boiling point and boiling :

range

Not applicable

Flash point : 100 °C

Method: closed cup

Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard

Self-ignition : The substance or mixture is not classified as pyrophoric. The

substance or mixture is not classified as self heating.

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : Not applicable

Relative vapour density : No data available

Relative density : 1.423

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.



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Possibility of hazardous reac- tions:

Use at elevated temperatures may form highly hazardous

compounds.

Can react with strong oxidizing agents.

Hazardous decomposition products will be formed upon con-

tact with water or humid air.

Hazardous decomposition products will be formed at elevated

temperatures.

Conditions to avoid : Exposure to moisture

Incompatible materials : Oxidizing agents

Water

Hazardous decomposition products

Contact with water or humid

: Ethyl methyl ketoxime

aır

Thermal decomposition : Formaldehyde

11. TOXICOLOGICAL INFORMATION

Exposure routes : Skin contact

Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Methyltri(ethylmethylketoxime)silane:

Acute oral toxicity : LD50 (Rat): > 2,520 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Remarks: On basis of test data.

Distillates (petroleum), hydrotreated middle:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,266 mg/m3

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Limestone:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral

tox-icity

Vinyltri (methylethylketoxime) silane:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

city



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Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: On basis of test data.

3-Aminopropyltriethoxysilane:

Acute oral toxicity : LD50 (Rat): 1.57 ml/kg

Remarks: On basis of test data.

Acute dermal toxicity : LD50 (Rabbit): 4.29 ml/kg

Remarks: Information taken from reference works and the

literature.

Skin corrosion/irritation

Not classified based on available information.

Components:

Methyltri(ethylmethylketoxime)silane:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

Distillates (petroleum), hydrotreated middle:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

3-Aminopropyltriethoxysilane:

Species: Rabbit

Result: Corrosive after 3 minutes to 1 hour of exposure

Remarks: On basis of test data.

Serious eye damage/eye irritation

Causes serious eve irritation.

Components:

Methyltri(ethylmethylketoxime)silane:

Species: Rabbit

Result: Irritation to eyes, reversing within 7 days

Remarks: On basis of test data.

Distillates (petroleum), hydrotreated middle:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Vinyltri (methylethylketoxime) silane:

Species: Rabbit

Result: Irreversible effects on the eye Remarks: On basis of test data.



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3-Aminopropyltriethoxysilane:

Species: Rabbit

Result: Irreversible effects on the eye Remarks: On basis of test data.

Methyltri(ethylmethylketoxime)silane isomers and oligomers:

Species: Rabbit

Result: Irritation to eyes, reversing within 7 days Remarks: Based on data from similar materials

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Methyltri(ethylmethylketoxime)silane:

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test

Species: Guinea pig

Remarks: On basis of test data.

Distillates (petroleum), hydrotreated middle:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

Vinyltri (methylethylketoxime) silane:

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test

Species: Guinea pig

Remarks: Based on data from similar materials

3-Aminopropyltriethoxysilane:

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test

Species: Guinea pig

Remarks: On basis of test data.

Test Type: Buehler Test Species: Guinea pig



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Remarks: On basis of test data.

Methyltri(ethylmethylketoxime)silane isomers and oligomers:

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test

Species: Guinea pig

Remarks: Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

Methyltri(ethylmethylketoxime)silane:

Genotoxicity in vitro : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)

Result: negative

Remarks: On basis of test data.

Distillates (petroleum), hydrotreated middle:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow

cytogenetic test, chromosomal analysis)

Species: Rat

Application Route: Intraperitoneal injection

Result: negative

Vinyltri (methylethylketoxime) silane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: On basis of test data.

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Remarks: On basis of test data.

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

3-Aminopropyltriethoxysilane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: On basis of test data.

: Test Type: Chromosome aberration test in vitro

Result: negative



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: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)

Result: negative

Remarks: On basis of test data.

: Test Type: In vitro sister chromatid exchange assay in mam-

malian cells Result: negative

Remarks: On basis of test data.

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Remarks: On basis of test data.

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

Carcinogenicity

Not classified based on available information.

Components:

3-Aminopropyltriethoxysilane:

Species: Mouse

Application Route: Skin contact

Result: negative

Remarks: On basis of test data.

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Not classified based on available information.

Components:

Methyltri(ethylmethylketoxime)silane:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat, male and female Application Route: Ingestion Symptoms: No effects on fertility Remarks: On basis of test data.

Effects on foetal develop-

ment

Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat, male and female Application Route: Ingestion

Symptoms: No effects on foetal development



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Reproductive toxicity - As-

sessment

: No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

Distillates (petroleum), hydrotreated middle:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

Result: negative

3-Aminopropyltriethoxysilane:

Effects on fertility : Species: Rat, male and female

Application Route: Ingestion Symptoms: No effects on fertility Remarks: On basis of test data.

Effects on foetal develop-

ment

Test Type: Prenatal development toxicity study (teratogenicity)

Species: Rat

Application Route: Ingestion

Symptoms: No effects on foetal development

Remarks: On basis of test data.

Reproductive toxicity - As-

sessment

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Methyltri(ethylmethylketoxime)silane:

Exposure routes: Ingestion Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to

100 mg/kg bw.

Vinyltri (methylethylketoxime) silane:

Exposure routes: Ingestion Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to

100 mg/kg bw.

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3-Aminopropyltriethoxysilane:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg

bw or less.

Exposure routes: inhalation (dust/mist/fume)

Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d

or less.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg

bw or less.

Methyltri(ethylmethylketoxime)silane isomers and oligomers:

Exposure routes: Ingestion Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to

100 mg/kg bw.

Repeated dose toxicity

Components:

Methyltri(ethylmethylketoxime)silane:

Species: Rat

Application Route: Ingestion Target Organs: Blood

Remarks: On basis of test data.

Distillates (petroleum), hydrotreated middle:

Species: Rat

NOAEL: >= 5,000 mg/kg Application Route: Ingestion Exposure time: 13 Weeks

Remarks: Based on data from similar materials

Vinyltri (methylethylketoxime) silane:

Species: Rat

Application Route: Ingestion Target Organs: Blood

Remarks: Based on data from similar materials

3-Aminopropyltriethoxysilane:

Species: Rat

Application Route: Ingestion Remarks: On basis of test data.

Species: Rat

Application Route: inhalation (dust/mist/fume)



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Species: Rabbit

Application Route: Skin contact

Remarks: Based on data from similar materials

Methyltri(ethylmethylketoxime)silane isomers and oligomers:

Species: Rat

Application Route: Ingestion Target Organs: Blood

Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated middle:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Further information

Product:

Remarks: During use of the material, small amounts of methylethylketoxime (MEKO) will be released. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumour rates.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Methyltri(ethylmethylketoxime)silane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 120 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 94 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials



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Limestone:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 120 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 94 mg/l

Exposure time: 72 h

Ecotoxicology Assessment

Acute aquatic toxicity This product has no known ecotoxicological effects.

Distillates (petroleum), hydrotreated middle:

Toxicity to fish LL50 (Scophthalmus maximus (turbot)): > 1,028 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

aquatic invertebrates

Toxicity to daphnia and other : LL50 (Acartia tonsa): > 3,193 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Toxicity to algae EL50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Toxicity to daphnia and other:

aquatic invertebrates (Chron-

ic toxicity)

NOELR (Ceriodaphnia dubia (water flea)): > 100 mg/l

Exposure time: 8 d

Test substance: Water Accommodated Fraction

EC50: > 100 mg/l Toxicity to microorganisms

Exposure time: 3 h

Method: OECD Test Guideline 209

Vinyltri (methylethylketoxime) silane:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

3-Aminopropyltriethoxysilane:

Toxicity to fish LC50 (Danio rerio (zebra fish)): > 934 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia sp. (water flea)): 331 mg/l

Exposure time: 48 h



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Persistence and degradability

Components:

Methyltri(ethylmethylketoxime)silane:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 14.5 % Exposure time: 21 d

Method: OECD Test Guideline 302B

Remarks: Based on data from similar materials

Distillates (petroleum), hydrotreated middle:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 74 % Exposure time: 28 d

Method: OECD Test Guideline 306

Vinyltri (methylethylketoxime) silane:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301A

Stability in water : Degradation half life: < 1 min (2 °C)

Method: OECD Test Guideline 111

Bioaccumulative potential

Components:

Methyltri(ethylmethylketoxime)silane:

Partition coefficient: n- : log Pow: 11.2

octanol/water

3-Aminopropyltriethoxysilane:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): < 100

Mobility in soil

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.



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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Law on Chemicals No. 06/2007/QH12

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

KECL : All ingredients listed or exempt.

EINECS : No subject chemicals.

TSCA : No subject chemicals.

MITI : No subject chemicals.

DSL : No subject chemicals.

AICSI : No subject chemicals.

IECSC : No subject chemicals.

PICCS: : No subject chemicals.

16. Oher Information

Further information

Prepared by: GHI Co., Ltd R&D dept.

This Material Safety Data Sheet(MSDS) may be changed or modified without prior notice due to product performance improvements or new technologies.