Sikagard M 790 Part B Formerly MSeal M 790 PTB



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SECTION 1. IDENTIFICATION

Product name : Sikagard M 790 Part B Formerly MSeal M 790 PTB

Product code : 00000000050543893

Other means of identification : MSeal M 790 Part B

Manufacturer or supplier's details

Company name of supplier : Sika MBCC US LLC

Address : 201 POLITO AVE

Lyndhurst NJ 07071

Emergency telephone : ChemTel: +1-813-248-0585

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (inhalation

(dust/mist/fume))

Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye

irritation

Category 2B

Respiratory sensitization : Category 1

Skin sensitization : Category 1B

Carcinogenicity : Category 2

Specific target organ toxicity

- single exposure

Category 3 (respiratory tract irritation)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2 (Respiratory system)

Hazardous to the aquatic

environment - acute hazard

Category 3

Hazardous to the aquatic : Category 2



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environment - chronic hazard

GHS label elements

Hazard pictograms







Signal Word : Danger

Hazard Statements : H320 Causes eye irritation.

H315 Causes skin irritation. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H373 May cause damage to organs (Respiratory system)

through prolonged or repeated exposure if inhaled.

H402 Harmful to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P271 Use only outdoors or in a well-ventilated area.

P260 Do not breathe dust or mist.

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

P202 Do not handle until all safety precautions have been read and understood.

P284 In case of inadequate ventilation wear respiratory protec-

P272 Contaminated work clothing should not be allowed out of the workplace.

P264 Wash face, hands and any exposed skin thoroughly after handling.

Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P314 Get medical advice/ attention if you feel unwell.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

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P362 + P364 Take off contaminated clothing and wash it before

reuse.

P391 Collect spillage.

P337 + P311 If eye irritation persists: Call a POISON CENTER

or doctor/physician. Collect solid spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards

CONTAINS ISOCYANATES. INHALATION OF ISOCYANATE MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO ISOCYANATES HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : isocyanate

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|-------------------------------------|------------|-----------------------|
| Isocyanic acid, polymethylenepoly- | 9016-87-9 | >= 25 - < 50 |
| phenylene ester (P-MDI) | | |
| Diphenylmethane-4,4'-diisocyanate | 101-68-8 | >= 20 - < 25 |
| (MDI) | | |
| Bis(isopropyl)naphthalene | 38640-62-9 | >= 15 - < 20 |
| diphenylmethane-2,4'-diisocyanate | 5873-54-1 | >= 1 - < 3 |
| Isocyanic acid, polymethylenepoly- | 57636-09-6 | >= 0.3 - < 1 |
| phenylene ester, polymer with.alpha | | |
| hydroomegahydroxypoly(oxy-1,2- | | |
| ethanediyl) | | |

SECTION 4. FIRST AID MEASURES

General advice : Remove contaminated clothing.



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If inhaled : Remove the affected individual into fresh air and keep the

person calm.

Assist in breathing if necessary.

Immediate medical attention required.

In case of skin contact : After contact with skin, wash immediately with plenty of water

and soap.

If on clothes, remove clothes.

If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth and then drink 200-300 ml of water.

Do NOT induce vomiting.

Never induce vomiting or give anything by mouth if the victim

is unconscious or having convulsions. Immediate medical attention required.

Most important symptoms and effects, both acute and

delayed

Causes skin and eye irritation.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated

exposure.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry powder

Carbon dioxide (CO2) Alcohol-resistant foam

Water spray

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

In case of fire hazardous decomposition products may be

produced such as:

Hazardous combustion prod: :

ucts

nitrous gases fumes/smoke

isocyanate vapor

Further information : Keep containers cool by spraying with water if exposed to fire.

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Dispose of fire debris and contaminated extinguishing water in

accordance with official regulations.

Special protective equipment:

for fire-fighters

Firefighters should be equipped with self-contained breathing

apparatus and turn-out gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation.

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

Dike spillage.

If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but

not sealed containers for disposal.

Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information).

Shovel into open container.

Spill area can be decontaminated with the following recom-

mended decontamination solution:

Mixture of 90 % water, 5-8 % household ammonia, 2-5 %

detergent.

Wash down spill area with decontamination solution.

Allow solution to stand for at least 10 minutes. Pick up with suitable absorbent material.

Place into appropriately labeled waste containers.

Do not make container pressure tight.

Move container to a well-ventilated area (outside).

Allow to stand for at least 48 hours to allow escape of evolved

carbon dioxide.

Dispose of absorbed material in accordance with regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Product is not explosive.

Normal measures for preventive fire protection.

Advice on safe handling : Provide suitable exhaust ventilation at the processing ma-

chines.

Ensure thorough ventilation of stores and work areas.

Avoid aerosol formation.

When handling heated product, vapours of the product should



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be ventilated, and respiratory protection used. Wear respiratory protection when spraying.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Danger of bursting when sealed gastight.

Protect against moisture.

If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48

hours before resealing.

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. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age conditions

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

Protect from direct sunlight.

Materials to avoid : Observe VCI storage rules.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|----------|-------------------------------------|--|--------------------------------------|
| Diphenylmethane-4,4'- diisocyanate (MDI) | 101-68-8 | TWA value | 0.005 ppm | ACGIHTLV |
| | | REL value | 0.005 ppm 0.05 mg/m3 | NIOSH |
| | | Ceil_Time | 0.020 ppm 0.2 mg/m3 | NIOSH |
| | | CLV | 0.02 ppm 0.2 mg/m3 | 29 CFR 1910.1000 (Table Z-1) |
| | | CLV | 0.02 ppm 0.2 mg/m3 | 29 CFR 1910.1000 (Table Z-1-A) |
| | | TWA | 0.005 ppm | ACGIH |
| | | С | 0.02 ppm 0.2 mg/m3 | OSHA Z-1 |
| | | С | 0.02 ppm | OSHA P0 |





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| | 0.2 mg/m3 | |
|-----|-------------------------|-----------|
| TWA | 0.005 ppm 0.05 mg/m3 | NIOSH REL |
| С | 0.02 ppm 0.2 mg/m3 | NIOSH REL |

Engineering measures Provide local exhaust ventilation to maintain recommended

P.E.L.

Personal protective equipment

Respiratory protection When workers are facing concentrations above the occupa-

tional exposure limits they must use appropriate certified

respirators.

Hand protection

Remarks Chemical resistant protective gloves should be worn to pre-

> vent all skin contact. Suitable materials may include chloroprene rubber (Neoprene) nitrile rubber (Buna N) chlorinated polyethylene polyvinylchloride (Pylox) butyl rubber depending

upon conditions of use.

Eye protection Tightly fitting safety goggles (chemical goggles).

Wear face shield if splashing hazard exists.

Skin and body protection Impervious clothing

> Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Chemical resistant protective boots

Cover as much of the exposed skin as possible to prevent all

skin contact.

Suitable materials may include

saran-coated material

depending upon conditions of use.

Protective measures Do not inhale gases/vapours/aerosols.

> Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily ac-

cessible.

Observe the appropriate PEL or TLV value.

Hygiene measures When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

Wash soiled clothing immediately.

Remove contaminated clothing immediately and clean before

re-use or dispose it if necessary.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid



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Color : brown, clear

Odor : aromatic

Odor Threshold : No data available

pH : Not applicable

Melting point : No data available

Boiling point/boiling range : $> 392 \, ^{\circ}\text{F} \, / > 200 \, ^{\circ}\text{C}$

Flash point : approx. 351 °F / 177 °C

Evaporation rate : No data available

Flammability (solid, gas) : not flammable

Self-ignition : not self-igniting

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

Not applicable

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : approx. 1.13 g/cm3 (68 °F / 20 °C)

approx. 1.10 g/cm3 (131 °F / 55 °C)

Bulk density : Not applicable

Solubility(ies)

Water solubility : not determined

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : Not relevant

Decomposition temperature : No decomposition if used as directed.





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Viscosity

Viscosity, dynamic : 1,300 mPa.s (77 °F / 25 °C)

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

Sublimation point : No data available

Molecular weight : No data available

SECTION 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 reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong acids

Strong bases

Strong oxidizing agents Strong reducing agents

Hazardous decomposition

products

No hazardous decomposition products if stored and handled

as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : ATE: 2 mg/l

Acute dermal toxicity : Remarks: No applicable information available.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.



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Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration hazard expected.

Further information

Product:

Remarks : The product has not been tested. The statements on toxicolo-

gy have been derived from the properties of the individual

components.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

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Bioaccumulative potential

Components:

Isocyanic acid, polymethylenepolyphenylene ester (P-MDI):

Bioaccumulation Remarks: Accumulation in organisms is not to be expected.

Diphenylmethane-4,4'-diisocyanate (MDI):

Partition coefficient: nlog Pow: 4.51 (72 °F / 22 °C)

octanol/water pH: 7

Method: Partition coefficient (n-octanol/water), HPLC method.

GLP: no

Bis(isopropyl)naphthalene:

Partition coefficient: nlog Pow: 6.081 (68 °F / 20 °C) octanol/water

Method: other (calculated)

GLP: no

diphenylmethane-2,4'-diisocyanate:

Partition coefficient: nlog Pow: 5.22 (77 °F / 25 °C)

octanol/water Method: other (calculated)

GLP: no

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

Toxic to aquatic life with long lasting effects.

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual

components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Dispose of in accordance with national, state and local regula-

tions.

Residues should be disposed of in the same manner as the

substance/product.

Do not discharge into drains/surface waters/groundwater.

Contaminated packaging Empty remaining contents.

> Dispose of as unused product. Do not re-use empty containers.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BIS(ISOPROPYL)NAPHTHALENE)

Class : 9
Subsidiary risk : EHSM
Packing group : III

Labels : 9 (EHSM)

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BIS(ISOPROPYL)NAPHTHALENE)

Class : 9
Subsidiary risk : EHSM
Packing group : III

Labels : Miscellaneous, Environmentally hazardous

Packing instruction (cargo

aircraft)

Packing instruction (passen-

ger aircraft)

964

964

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BIS(ISOPROPYL)NAPHTHALENE)

Class : 9
Subsidiary risk : EHSM
Packing group : III
Labels : 9 (EHSM)
EmS Code : F-A S-F

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

49 CFR

UN/ID/NA number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BIS(ISOPROPYL)NAPHTHALENE)

Class : 9
Subsidiary risk : EHSM
Packing group : III



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Labels : CLASS 9, Environmentally hazardous

ERG Code : 171 Marine pollutant : no

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.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ | Calculated product RQ |
|---|----------|--------------|-----------------------|
| | | (lbs) | (lbs) |
| Diphenylmethane-4,4'- diisocyanate (MDI) | 101-68-8 | 5000 | 20500 |

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Diphenylme- 101-68-8

thane-4,4'diisocyanate (MDI)

Isocyanic acid, 9016-87-9

polymethylenepolyphenylene ester (P-MDI)

US State Regulations

Pennsylvania Right To Know

Diphenylmethane-4,4'-diisocyanate (MDI) 101-68-8

New Jersey Right To Know

Diphenylmethane-4,4'-diisocyanate (MDI) 101-68-8

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

TSCA : All chemical substances in this product are either listed as

active on the TSCA Inventory or are in compliance with a

TSCA Inventory exemption.

DSL : All components of this product are on the Canadian DSL

SECTION 16. OTHER INFORMATION

Further information

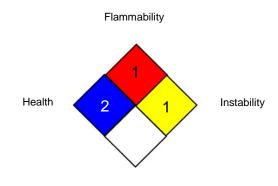


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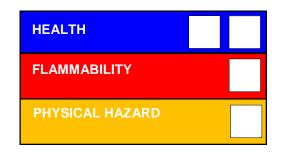
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NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1-A (29 CFR 1910.1000)

1-A)

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR

1) 1910.1000

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIHTLV : American Conference of Governmental Industrial Hygienists -

threshold limit values (US)

NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

29 CFR 1910.1000 (Table Z- : Ceiling Limit Value:

1-A) / CLV

29 CFR 1910.1000 (Table Z- : Ceiling Limit Value:

1) / CLV

ACGIH / TWA : 8-hour, time-weighted average ACGIHTLV / TWA value : Time Weighted Average (TWA):

NIOSH / Ceil_Time : Ceiling Limit Value and Time Period (if specified):

NIOSH / REL value : Recommended exposure limit (REL):

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA P0 / C : Ceiling limit OSHA Z-1 / C : Ceiling

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely



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Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

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