

# **WABOCRETE II PART A**

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#### **SECTION 1. IDENTIFICATION**

Emergency telephone

Product name : WABOCRETE II PART A

Product code : 00000000050386583 00000000050386583

Manufacturer or supplier's details

Company name of supplier : Master Builders-Admixtures US,LLC

Address : 23700 CHAGRIN BLVD Beachwood OH 44122

ChemTel: +1-813-248-0585 USA: +1-800-255-3924 Contract

Number MIS9240420

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) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye

irritation

Category 2A

Respiratory sensitization : Category 1

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2 (Respiratory system)

Skin sensitization : Category 1B

Carcinogenicity : Category 2

Specific target organ toxicity

- single exposure

Category 3

**GHS** label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H319 Causes serious 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.

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H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or re-

peated exposure.

### **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.

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

P284 In case of inadequate ventilation wear respiratory protection.

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.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

#### 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



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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 : Sealant

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	>= 15 - < 50
diphenylmethane-2,4'-diisocyanate	5873-54-1	>= 10 - < 15
2,2'-Methylenediphenyl diisocyanate	2536-05-2	>= 0.1 - < 3

### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in attend-

ance.

Do not leave the victim unattended.

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

person calm.

Assist in breathing if necessary.

Immediate medical attention required.

Call a physician or poison control center immediately.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : Wash affected areas thoroughly with soap and water.

If irritation develops, seek medical attention. If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : In case of contact with the eyes, rinse immediately for at least

15 minutes with plenty of water. Immediate medical attention required. 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.

Induce vomiting immediately and call a physician.

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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Take victim immediately to hospital.

Most important symptoms

and effects, both acute and

delayed

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

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 : Foam

> Dry powder Water spray

Carbon dioxide (CO2) High volume water jet

Unsuitable extinguishing

media

Hazardous combustion prod-

ucts

nitrous gases fumes/smoke

isocyanate vapor

harmful vapours nitrogen oxides carbon black

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

Dispose of fire debris and contaminated extinguishing water in

accordance with official regulations. Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Special protective equipment :

for fire-fighters

Firefighters should be equipped with self-contained breathing

apparatus and turn-out gear.

Wear self-contained breathing apparatus for firefighting if nec-

essary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Clear area.

Ensure adequate ventilation.

Wear suitable personal protective clothing and equipment.

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.



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Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on protection against : Product is not explosive.

fire and explosion

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

be ventilated, and respiratory protection used. Wear respiratory protection when spraying. 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. Avoid formation of aerosol. Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

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.

Conditions for safe storage Keep container tightly closed in a dry and well-ventilated

place.

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.

Recommended storage tem- :

perature

72 °F / 22 °C

95 °F / 35 °C

Further information on stor-

age stability

Minimum storage temperature:



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Maximum storage temperature:

### **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 0.2 mg/m3	OSHA P0
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		С	0.02 ppm 0.2 mg/m3	NIOSH REL

Engineering measures

No applicable information available.

### Personal protective equipment

Respiratory protection

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and

change out schedules are in place.

For emergency or non-routine, high exposure situations, including confined space entry, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air

respirator (SAR) with escape provisions.

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) fluoroelastomer (Viton)

depending upon conditions of use.

Protective measures

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The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles (chemical goggles).

Wear face shield if splashing hazard exists.

Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : 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.

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place. 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 : Wash soiled clothing immediately.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : yellow

Odor : aromatic, slight odour

Odor Threshold : No data available

pH : insoluble

Melting point : No applicable information available.

boiling temperature : approx. 597 °F / 314 °C

Flash point : 370 °F / 188 °C

Method: Flash-Point by Pensky-Martens Closed Cup Tester.,

closed cup

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not highly flammable

Self-ignition : not self-igniting

Upper explosion limit / Upper

flammability limit

: No applicable information available.

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Lower explosion limit / Lower

flammability limit

No applicable information available.

Vapor pressure :  $< 0.0001 \text{ mmHg} (77 \degree \text{F} / 25 \degree \text{C})$ 

Relative vapor density : No applicable information available.

Relative density : approx. 1.21 (77 °F / 25 °C)

Density : approx. 1.2 g/cm3 (68 °F / 20 °C)

Bulk density : approx. 1.198 kg/m3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : hydrolyzes, insoluble (68 °F / 20 °C)

Solubility in other solvents : insoluble

Autoignition temperature : The product has not been tested. The statement has been

derived from the properties of the individual components.

Decomposition temperature : No decomposition if stored and handled as pre-

scribed/indicated.

Viscosity

Viscosity, dynamic : No applicable information available.

Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

Sublimation point : No applicable information available.

Molecular weight : No data available

Metal corrosion rate : Corrosive effects to metal are not anticipated.

#### **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- : No decomposition if stored and applied as directed.

tions

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

Incompatible materials : Strong acids

Strong bases
Strong oxidizing agents

Strong oxidizing agents
Strong reducing agents

Hazardous decomposition

products

: No hazardous decomposition products if stored and handled

as prescribed/indicated.

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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

Harmful if inhaled.

**Product:** 

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : LC50 (Rat): 490 mg/m3

Exposure time: 4 h

Acute dermal toxicity : Remarks: No applicable information available.

#### Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation and/or dermatitis.

## Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Remarks : May cause irreversible eye damage.

#### 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.

#### **Product:**

Remarks : Causes sensitization.

## 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 through prolonged or repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.



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#### **Components:**

### 2,2'-Methylenediphenyl diisocyanate:

Not applicable

#### **Further information**

**Product:** 

Remarks : The product has not been tested. The statement has been

derived from the properties of the individual components.

Remarks : No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

**Product:** 

Toxicity to fish : LC0 (zebra fish): > 1,000 mg/l

Exposure time: 96 h

LC0 (Oryzias latipes): > 3,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna): > 1,000 mg/l

Exposure time: 24 h

Toxicity to algae/aquatic

plants

No observed effect concentration (green algae): 1,640 mg/l

Exposure time: 72 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## Persistence and degradability

**Product:** 

Biodegradability : Remarks: Taking into consideration the properties of several

ingredients, the product is estimated not to be readily biode-

gradable according to OECD classification.

## Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No data available.

Discharge into the environment must be avoided.

## **Components:**

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



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Partition coefficient: n-

octanol/water

log Pow: 4.51 (72 °F / 22 °C)

pH: 7

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

GLP: no

diphenylmethane-2,4'-diisocyanate:

Partition coefficient: noctanol/water log Pow: 5.22 (77 °F / 25 °C) Method: other (calculated)

GLP: no

2,2'-Methylenediphenyl diisocyanate:

Partition coefficient: n- : log Pow: 5.22

octanol/water Method: other (calculated)

Mobility in soil
No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

There is a high probability that the product is not acutely

harmful to aquatic organisms.

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.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible

and disposed of in the same manner as the sub-

stance/product.

**SECTION 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.

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#### **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

### **SECTION 15. REGULATORY INFORMATION**

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)

## **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

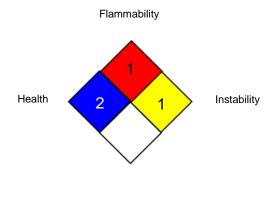
## The ingredients of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

#### **SECTION 16. OTHER INFORMATION**

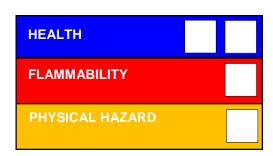
#### **Further information**

#### 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)

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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 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 Sub-



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stance 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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