



# **SAFETY DATA SHEET**

# **INHIBITOR AZ8104**

### 1. Identification

Product identifier INHIBITOR AZ8104

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Water-based corrosion inhibitor

**Restrictions on use** Not available.

#### Company/undertaking identification

SUEZ WATER TECHNOLOGIES & SOLUTIONS PTY

LIMITED

103 Raubers Road, Northgate, QLD 4013 Australia Level 6, 63 Albert Street, Auckland, 1010, New Zealand

Tel: 1800 064 140 (AUS) 0800 945635 (NZ)

### **Emergency telephone**

+61-290372994 (Aust) +64-98010034 (NZ)

## 2. Hazard(s) identification

#### Classification of the hazardous chemical

Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute	Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

### Label elements, including precautionary statements

Hazard symbol(s)



Corrosion

Signal word Danger

Hazard statement(s) May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye

damage. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

**Prevention** Keep only in original container. Do not breathe mist or vapor. Wash thoroughly after handling.

Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face

protection.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing

before reuse. Absorb spillage to prevent material damage.

Storage Store locked up. Store in corrosive resistant container with a resistant inner liner.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification

None known.







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## **INHIBITOR AZ8104**

Supplemental information

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Chlorotolyltriazole sodium salt	202420-04-0	10 - < 20
DICHLOROTOLYLTRIAZOLE	NOT ASSIGNED	3 - < 7
Sodium 4(or 5)-methyl-1H-benzotriazolide	64665-57-2	1 - < 5
Sodium hydroxide	1310-73-2	1 - < 5

### 4. First-aid measures

### Description of necessary first aid measures

Call a physician if symptoms develop or persist. Inhalation

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may Symptoms caused by exposure

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an

ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Symptoms may be delayed.

### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire

fighters

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Hazchem code

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

None.

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.







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**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls and personal protection

Control parameters Fo

Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

ComponentsTypeValueSodium hydroxide (CASCeiling2 mg/m31310-73-2)

**US. ACGIH Threshold Limit Values** 

ComponentsTypeValueSodium hydroxide (CASCeiling2 mg/m3

1310-73-2)

**UK. EH40 Workplace Exposure Limits (WELs)** 

ComponentsTypeValueSodium hydroxide (CASSTEL2 mg/m31310-73-2)

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

wash facilities and emergency shower must be available when handling this product.

for example personal protective equipment (PPE)

Individual protection measures, for example personal protective equipment (PPE)

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation,

or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye

equipment to remove contaminants.

### 9. Physical and chemical properties

Appearance Liquid
Physical state Liquid.





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## **INHIBITOR AZ8104**

**Form** Liquid.

Yellow to amber Color

Slight Odor

**Odor threshold** Not available.

12.7 pH (concentrated product)

pH in aqueous solution 11.6 (5% SOL.)

Melting point/freezing point -11 °C Initial boiling point and boiling

99 °C

range

Flash point Not available. **Evaporation rate** < 1 (Ether = 1) Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 18 mm Hg

21 °C Vapor pressure temp.

< 1 (Air = 1)Vapor density

Relative density 1.13 21 °C Relative density temperature

Solubility(ies)

100 % Solubility (water)

**Partition coefficient** (n-octanol/water)

Not available.

Not available. **Auto-ignition temperature Decomposition temperature** Not available.

**Viscosity** 5 cps 21 °C Viscosity temperature Other physical and chemical parameters

> Not explosive. **Explosive properties Oxidizing properties** Not oxidizing. 11.6 (5% SOL.) pH in aqueous solution

-8 °C Pour point 1.132 Specific gravity

VOC 0 % (Estimated)

### 10. Stability and reactivity

May be corrosive to metals. Reactivity

**Chemical stability** Not available. Possibility of hazardous Not available.

reactions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with Conditions to avoid

incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents. Metals. No hazardous decomposition products are known. **Hazardous decomposition** 

products







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## 11. Toxicological information

Information on possible routes of exposure

May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

Skin contact Causes severe skin burns. Eye contact Causes serious eye damage. Ingestion Causes digestive tract burns.

Symptoms related to exposure Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

	blindness could result.		
Acute toxicity Not known.			
Product	Species	Test Results	
INHIBITOR AZ8104 (CAS N	Mixture)		
Acute			
Dermal			
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)	
Oral			
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)	
Components Species		Test Results	
Chlorotolyltriazole sodium s	alt (CAS 202420-04-0)		
Acute			
Dermal			
LD50	Rat	> 5000 mg/kg	
Oral			
LD50	Rat	3100 mg/kg	
DICHLOROTOLYLTRIAZO	LE (CAS NOT ASSIGNED)		
Acute			
Dermal			
LD50	Rat	> 5000 mg/kg	

Oral

LD50 Rat 3100 mg/kg

Sodium 4(or 5)-methyl-1H-benzotriazolide (CAS 64665-57-2)

**Acute** Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat 735 mg/kg

Sodium hydroxide (CAS 1310-73-2)

**Acute** Dermal

Rabbit LD50 1350 mg/kg

Oral

LD50 Rabbit > 500 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer. This product is not expected to cause respiratory sensitization.

Skin sensitization This product is not expected to cause skin sensitization.



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**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not available.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard. Based on available data, the classification criteria are not met.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Product		Species	Test Results
INHIBITOR AZ8104 (CAS	Mixture)		
	LC50	Annelida(Lumbriculus variegatus)	138 mg/L, Static Acute Bioassay, 96 hour
		Benthic Crustacean(Gammerus pseutolimnaeus)	42.1 mg/L, Static Acute Bioassay, 96 hour
		Freshwater Snail(Physa sp.)	47.4 mg/L, Static Acute Bioassay, 96 hour
		Midge larvae (Chironomus tentans)	95.8 mg/L, Static Acute Bioassay, 96 hour
	NOEL	Annelida(Lumbriculus variegatus)	62.5 mg/L, Static Acute Bioassay, 96 hour
		Benthic Crustacean(Gammerus pseutolimnaeus)	25 mg/L, Static Acute Bioassay, 96 hour
		Freshwater Snail(Physa sp.)	25 mg/L, Static Acute Bioassay, 96 hour
		Midge larvae (Chironomus tentans)	62.5 mg/L, Static Acute Bioassay, 96 hour
Other	EC50	Pseudokirchnerella subcapitata	132 mg/l, 96 Hours
Aquatic			
Crustacea	EC0	Daphnia magna	155 mg/L, Static Acute Bioassay, 48 hour, (pH adjusted)
	EC50	Daphnia magna	210 mg/L, Static Acute Bioassay, 48 hour, (pH adjusted)
			50 mg/L, Chronic Bioassay, 21 day, (pH adjusted)
	LC50	Ceriodaphnia	124 mg/L, Static Renewal Bioassay, 48 hour
		Daphnia magna	217 mg/L, Static Renewal Bioassay, 48 hour, (pH adjusted)
		Mysid Shrimp	53 mg/L, Static Acute Bioassay, 48 hour, (pH adjusted)
	LOEL	Ceriodaphnia	40 mg/L, Chronic Bioassay, 7 day
	NOEL	Ceriodaphnia	75 mg/L, Static Renewal Bioassay, 48 hour
			20 mg/L, Chronic Bioassay, 7 day
		Daphnia magna	148 mg/L, Static Renewal Bioassay, 48 hour, (pH adjusted)
			27 mg/L, Chronic Bioassay, 21 day, (pH adjusted)



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Product		Species	Test Results
		Mysid Shrimp	25 mg/L, Static Acute Bioassay, 48 hour, (pH adjusted)
Fish	LC50	Bluegill Sunfish	36.6 mg/L, Static Acute Bioassay, 96 hour
		Fathead Minnow	135 mg/L, Static Acute Bioassay, 96 hour, (pH adjusted)
			50.7 mg/L, Static Renewal Bioassay, 96 hour, (pH adjusted)
		Menidia beryllina (Silversides)	41 mg/L, Static Acute Bioassay, 96 hour
		Rainbow Trout	15.4 mg/L, Static Renewal Bioassay, 96 hour
		Sheepshead Minnow	132 mg/L, Static Acute Bioassay, 96 hour, (pH adjusted)
	LOEL	Fathead Minnow	8.3 mg/L, Chronic Flow-Thru Bioassay, 28 day, (pH adjusted)
	NOEL	Bluegill Sunfish	25 mg/L, Static Acute Bioassay, 96 hour
		Fathead Minnow	21.8 mg/L, Static Renewal Bioassay, 96 hour, (pH adjusted)
			15 mg/L, Static Acute Bioassay, 96 hour, (pH adjusted)
			4.2 mg/L, Chronic Flow-Thru Bioassay, 28 day, (pH adjusted)
		Menidia beryllina (Silversides)	25 mg/L, Static Acute Bioassay, 96 hour
		Rainbow Trout	6.3 mg/L, Static Renewal Bioassay, 96 hour
		Sheepshead Minnow	100 mg/L, Static Acute Bioassay, 96 hour, (pH adjusted)
Components		Species	Test Results

**Aquatic** 

Algae EbC50 Algae 6.84 mg/l ErC50 Algae 18.6 mg/l

**Bioaccumulative potential** 

No data available.

Mobility in soil No data available for this product.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

**Environmental fate** Harmful to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal.

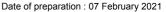
Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

- COD (mgO2/g) 300 - BOD 5 (mgO2/g) 15 - BOD 28 (mgO2/g) 15 - Closed Bottle Test (% Degradation in 28 days) - Zahn-Wellens Test (% 0 Degradation in 28 days)

100 - TOC (mg C/g)







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## 13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Residual waste Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

ADG

UN number 1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (Sodium hydroxide, HALOGENATED AROMATIC

HETEROCYCLE)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III

**Environmental hazards** Not available.

Hazchem code 2X

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IATA** 

UN number 1760

UN proper shipping name Transport hazard class(es)

Corrosive liquid, n.o.s. (SODIUM HYDROXIDE, HALOGENATED AROMATIC HETEROCYCLE)

Class 8
Subsidiary risk Packing group II
Environmental hazards No

ERG Code 154

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number 1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, HALOGENATED AROMATIC

HETEROCYCLE)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group ||
Environmental hazards

Marine pollutant No. EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

**ADG** 





Date of preparation: 07 February 2021



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IATA; IMDG



## 15. Regulatory information

## Safety, health and environmental regulations

**National regulations** 

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (May 2018).

Group Standard - Corrosion Inhibitors - Corrosive HSR002547

#### Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

## Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

## Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

## Australia Medicines & Poisons Appendix E

Sodium hydroxide (CAS 1310-73-2)

# Australia Medicines & Poisons Appendix F

Sodium hydroxide (CAS 1310-73-2)

## Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

## Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

## Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

## Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

### **Australia Medicines & Poisons Schedule 10**

Sodium hydroxide (CAS 1310-73-2)

## Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

# Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

## Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

### Australia Medicines & Poisons Schedule 5

Sodium hydroxide (CAS 1310-73-2)

### Australia Medicines & Poisons Schedule 6

Sodium hydroxide (CAS 1310-73-2)

### Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

### Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.





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### **High Volume Industrial Chemicals (HVIC)**

Sodium hydroxide (CAS 1310-73-2)

> 1000000 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

National Pollutant Inventory (NPI) substance reporting list

Not listed.

**Prohibited Carcinogenic Substances** 

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

**Restricted Carcinogenic Substances** 

Not regulated.

#### International regulations

#### **Stockholm Convention**

Not applicable.

#### Rotterdam Convention

Not applicable.

#### **Kyoto protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

## **Basel Convention**

Not applicable.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes

European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan Nο Korea Existing Chemicals List (ECL) Nο

New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals and Chemical Substances No

(PICCS) Taiwan Taiwan Chemical Substance Inventory (TCSI) No

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s)

NSF Registered and/or meets **USDA** (according to 1998

Registration No. – 141530

guidelines):

Category Code(s):

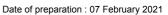
G5 Cooling and retort water treatment products

G7 Boiler, steam line treatment products - nonfood contact

#### 16. Other information

Issue date 07-February-2021 07/02/2021 **Revision date** References: No data available







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**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

**Revision information** Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Additional Components

Physical & Chemical Properties: Multiple Properties

**Ecological Information: Ecotoxicity** 

Transport Information: Material Transportation Information
Material Attributes & Uses; Experimental Data: Experimental Data

HazReg Data: Pacific Rim GHS: Classification

**REACH: Registration Substance** 

