



P&WC

Version: 10.0

Effective date: 28/01/2021

Previous Date: 19/07/2019

SAFETY DATA SHEET

INHIBITOR AZ8104 (CoolGard CI 12)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture INHIBITOR AZ8104 (CoolGard CI 12)

Version number 10.0

Revision date 28/01/2021

Supersedes date 19/07/2019

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Water-based corrosion inhibitor

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC

Address: Street V. Kadirov 10, Chirchik city,
Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

Email address: info@pwch.uz

www.pwch.uz

1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city,
Tashkent Region,
Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Corrosive to metals Category 1 H290 - May be corrosive to metals.

Health hazards

Skin corrosion/irritation Category 1B H314 - Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye damage.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard Category 3 H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements



P&WC
SAFETY DATA SHEET
INHIBITOR AZ8104 (CoolGard CI 12)

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide, Sodium hydroxide

Hazard pictograms



Signal word Danger

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
P310 Immediately call a POISON CENTRE/doctor.

Storage Not available.

Disposal Not available.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical description Aqueous alkaline solution of organic heterocyclic compounds

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Sodium hydroxide	1 - < 3	1310-73-2 215-185-5	01-2119457892-27	011-002-00-6	
Classification:	Met. Corr. 1;H290, Skin Corr. 1A;H314				

Multi-constituent substance(

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide	<= 25	N/A -	01-2119949569-17	-	

Classification: Skin Corr. 1B;H314, Eye Dam. 1;H318, Aquatic Chronic 3;H412



P&WC

SAFETY DATA SHEET

INHIBITOR AZ8104 (CoolGard CI 12)

Version: 10.0

Effective date: 28/01/2021

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The classification of the above substance(s) is given, including the hazard class, category code and hazard statements which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 where the full text of each relevant H-statement is listed.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Ingestion	Rinse mouth. Do not give anything to eat or drink. Do not induce vomiting. Call a physician or poison control centre immediately.

4.2. Most important symptoms and effects, both acute and delayed Corrosive effects.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable extinguishing media	None.

5.2. Special hazards arising from the substance or mixture Hydrogen chloride, oxides of carbon and nitrogen evolved in fire.

5.3. Advice for firefighters

Special protective equipment for firefighters	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
Special fire fighting procedures	Use standard firefighting procedures and consider the hazards of other involved materials. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Wear protective clothing, gloves and safety goggles.

For emergency responders Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Prevent from entering sewers or the immediate environment.
Accidental release of large quantities into the aquatic environment may harm aquatic organisms.

6.3. Methods and material for containment and cleaning up Absorb onto inert material and dispose of according to Hazardous Waste Regulations.

6.4. Reference to other sections Please refer also to section no. 8 'Exposure controls' for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid contact with skin and eyes. Alkaline.
Do not mix with acidic material.

7.2. Conditions for safe storage, including any incompatibilities Store containers closed when not in use.
Store away from oxidisers.
Store at temperatures below 35°C
Store in corrosive resistant container with a resistant inner liner.



P&WC

SAFETY DATA SHEET

INHIBITOR AZ8104 (CoolGard CI 12)

7.3. Specific end use(s) Only for professional and industrial users
Shelf life 720 days

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	STEL	2 mg/m ³

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

Recommended monitoring procedures Not available.

Derived no effect levels (DNELs)

Workers

Components	Value	Assessment factor	Notes
Sodium hydroxide (CAS 1310-73-2)			
Long-term, Local, Inhalation	1 mg/m ³	1	
Short-term, Local, Dermal	2 mg/kg/day		
Short-term, Local, Inhalation	2 mg/m ³		

Multi-constituent substance(s)	Value	Assessment factor	Notes
Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide (CAS N/A)			
Long-term, Systemic, Dermal	2 mg/kg/day	150	
Long-term, Systemic, Inhalation	7 mg/m ³	150	

Predicted no effect concentrations (PNECs)

Multi-constituent substance(s)	Value	Assessment factor	Notes
Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide (CAS N/A)			
Freshwater	12,8 µg/l	50	
Marine water	1,28 µg/l	500	
Sediment (freshwater)	132 µg/kg	1	
Sediment (marine water)	13,2 µg/kg	10	
Soil	19,1 µg/kg	1	
STP	1,82 mg/l	100	

8.2. Exposure controls

Appropriate engineering controls Adequate ventilation to maintain air contaminants below exposure limits.
 Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Splash proof chemical goggles.
 Face shield.
 CEN : EN 166

Skin protection

- Hand protection Gauntlet type neoprene gloves (Protection against unintentional short-term contact)
 Gauntlet type rubber gloves (Protection against unintentional short-term contact)
 Gauntlet type nitrile gloves (Protection against unintentional short-term contact)
 Gauntlet type butyl gloves (Protection against unintentional short-term contact)
 Coating thickness: 0.5 mm
 Penetration time: > 480 min
 CEN : EN 374-1/2/3/4; EN 420

- Other Chemical resistant apron.
 CEN : EN ISO 13688; EN ISO 6530; EN ISO 6529; EN 14605

Respiratory protection In case of insufficient ventilation, use a breathing mask with filter type: A2-P2
 CEN : EN 140; EN 14387

Thermal hazards Not available.



P&WC

SAFETY DATA SHEET

INHIBITOR AZ8104 (CoolGard CI 12)

Environmental exposure controls Prevent from entering in public sewers or the immediate environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Colour Yellow to amber
Physical state Liquid

Odour Slight

Odour threshold Not available.

pH (concentrated product) 12,7

pH in aqueous solution 11,6 (5% SOL.)

Melting point/freezing point -11 °C

Initial boiling point and boiling range 99 °C

Flash point Not applicable.

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.

Vapour pressure 18 mm Hg

Vapour pressure temp. 21 °C

Vapour density < 1 (Air = 1)

Relative density 1,13

Relative density temperature 21 °C

Solubility

Solubility (water) 100 %

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not applicable.

Decomposition temperature Not available.

Viscosity 5 cps

Viscosity temperature 21 °C

Explosive properties Not available.

Oxidising properties Not available.

9.2. Other information

Pour point -8 °C

Shelf life 720 days

VOC 0 % (Estimated)

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions Not applicable.

10.4. Conditions to avoid No special requirement.

Incompatible materials Avoid contact with strong acids and oxidisers.

Material name: INHIBITOR AZ8104 (CoolGard CI 12)



P&WC

SAFETY DATA SHEET

INHIBITOR AZ8104 (CoolGard CI 12)

10.6. Hazardous decomposition products Hydrogen chloride, oxides of carbon and nitrogen evolved in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product	Test Results
INHIBITOR AZ8104 (CoolGard CI 12) (Mixture)	Acute Dermal LD50 Rat: > 5000 mg/kg (Calculated according to GHS additivity formula) Acute Oral LD50 Rat: > 5000 mg/kg (Calculated according to GHS additivity formula)
Components	Test Results
Sodium hydroxide (1310-73-2)	Acute Dermal LD50 Rabbit: 1350 mg/kg Acute Oral LD50 Rabbit: > 500 mg/kg
Multi-constituent substance(s)	Test Results
Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide (N/A)	Acute Dermal Rabbit: > 2000 mg/kg Acute Oral Rat: > 2000 mg/kg

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Ingestion	Causes digestive tract burns.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.

Symptoms	Not available.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	None known.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity

Product	Species	Test Results
INHIBITOR AZ8104 (CoolGard CI 12) (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



P&WC
SAFETY DATA SHEET
INHIBITOR AZ8104 (CoolGard CI 12)

Product		Species	Test Results
		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(Gammarus pseudolimnaeus)	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)
		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



P&WC
SAFETY DATA SHEET
INHIBITOR AZ8104 (CoolGard CI 12)

Product	Species	Test Results
	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)

12.2. Persistence and degradability

Testing has shown product not to be readily biodegradable.

- COD (mgO2/g) 300
- BOD 5 (mgO2/g) 15
- BOD 28 (mgO2/g) 15
- Closed Bottle Test (% Degradation in 28 days) 6
- Zahn-Wellens Test (% Degradation in 28 days) 0
- TOC (mg C/g) 100

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow) Not available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Nutrients: N: 13,3 mg/g

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contaminated packaging According to Hazardous Waste Regulations.

EWC (European Waste Code) recommendation : 15 01 10
 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.
 15 01 Packaging (including separately collected municipal packaging waste).
 15 01 10 Packaging containing residues of or contaminated by dangerous substances. Depending on the origin and state of the waste, other EWC numbers may be applicable too.

Disposal methods/information According to Hazardous Waste Regulations.

EWC (European Waste Code) recommendation : 16 03 05
 16 Wastes not otherwise specified in the list.
 16 03 Off-specification batches and unused products.
 16 03 05 Organic wastes containing dangerous substances.
 Depending on the origin and state of the waste, other EWC numbers may be applicable too.

SECTION 14: Transport information

ADR

14.1. UN number UN1760



P&WC

SAFETY DATA SHEET

INHIBITOR AZ8104 (CoolGard CI 12)

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

14.3. Transport hazard class(es)

Class 8

Subsidiary risk -

Tunnel restriction code (E)

14.4. Packing group II

14.5. Environmental hazards No.

14.6. Special precautions for user Not available.

RID

14.1. UN number UN1760

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

14.3. Transport hazard class(es)

Class 8

Subsidiary risk -

14.4. Packing group II

14.5. Environmental hazards No.

14.6. Special precautions for user Not available.

ADN

14.1. UN number UN1760

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

14.3. Transport hazard class(es)

Class 8

Subsidiary risk -

14.4. Packing group II

14.5. Environmental hazards No.

14.6. Special precautions for user Not available.

IATA

14.1. UN number UN1760

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

14.3. Transport hazard class(es)

Class 8

Subsidiary risk -

14.4. Packing group II

14.5. Environmental hazards No.

ERG Code Not available.

14.6. Special precautions for user Not available.

IMDG

14.1. UN number UN1760

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

14.3. Transport hazard class(es)

Class 8

Subsidiary risk -

14.4. Packing group II



P&WC

SAFETY DATA SHEET

INHIBITOR AZ8104 (CoolGard CI 12)

14.5. Environmental hazards

Marine pollutant No.

EmS F-A, S-B

14.6. Special precautions for user Not available.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code This substance/mixture is not intended to be transported in bulk.

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

National regulations Not available.



P&WC

SAFETY DATA SHEET

INHIBITOR AZ8104 (CoolGard CI 12)

15.2. Chemical safety assessment

Not available.

NSF Registered and/or meets USDA (according to 1998 guidelines):

Registration No. – 141530
Category Code(s):
G5 Cooling and retort water treatment products
G7 Boiler, steam line treatment products – nonfood contact

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

*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).

SECTION 16: Other information

List of abbreviations

COD: Chemical Oxygen Demand
EC-No: European Commission Number
IATA: International Air Transport Association
CAS: Chemical Abstract Service.
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CEN: European Committee for Standardization (Comité Européen de Normalisation).
TWA: Time Weighted Average.
STEL: Short-term Exposure Limit.
LD50: Lethal Dose 50%.
LC50: Lethal Concentration 50%.
EC50: Effective Concentration 50%.
NOEL: No observed effect level.
BOD: Biochemical oxygen demand.
TOC: Total Organic Carbon.
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).
IMDG Code: International Maritime Dangerous Goods Code.
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

References

Information on evaluation method leading to the classification of mixture

Safety data sheets of raw materials.
The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 (CLP).

Full text of any H-statements not written out in full under Sections 2 to 15

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Training information

Provide training on safe handling while considering the type of application and exposure scenarios.

Based on EC Directive / Regulations

(EC) No 1907/2006 (REACH)
(EC) No 1272/2008
(EU) 2015/830
(EU) No 1357/2014

Further information

Correction in Section: 1,3,11,14