

SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200, WHMIS 2022 and Safe Work Australia

Revision date: 13 January 2025

Date of previous issue: –

SDS No. 487

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

ARC SD4i RC (Part B) (BLU)

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

Relevant identified uses: 100% solids, advanced reinforced thin film coating to protect structures and equipment in extreme immersion services. To be used with standard SD4i Resin.

Uses advised against: No information available

Reason why uses advised against: Not applicable

1.3. Details of the supplier of the safety data sheet

Company:

A.W. CHESTERTON COMPANY
 860 Salem Street
 Groveland, MA 01834-1507, USA
 Tel. +1 978-469-6446
 (Mon. - Fri. 8:30 - 5:00 PM EST)
 SDS requests: www.chesterton.com
 E-mail (SDS questions): ProductSDSs@chesterton.com
 E-mail: customer.service@chesterton.com

Supplier:

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,
 Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055

1.4. Emergency telephone number

24 hours per day, 7 days per week
 Call Infotrac: 1-800-535-5053
 Outside N. America: +1 352-323-3500 (collect)
 NSW Poisons Information Centre (Australia): 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to 29 CFR 1910.1200 / WHMIS 2022 / Safe Work Australia / GHS

Acute toxicity, Category 3, H331 (mist)
 Acute toxicity, Category 4, H302
 Skin corrosion, Category 1B, H314
 Serious eye damage, Category, H318
 Skin sensitization, Category 1, H317
 Germ cell mutagenicity, Category 2, H341
 Reproductive toxicity, Category 1B, H360D
 Specific target organ toxicity – repeated exposure, Category 2, H373 (kidneys, liver, skin, nervous system)

2.1.2. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16.

2.2. Label elements

Labeling according to 29 CFR 1910.1200 / WHMIS 2022 / Safe Work Australia / GHS

Hazard pictograms:



Signal word:

Danger

Hazard statements:	H331	Toxic if inhaled.
	H302	Harmful if swallowed.
	H314	Causes severe skin burns and eye damage.
	H317	May cause an allergic skin reaction.
	H341	Suspected of causing genetic defects.
	H360D	May damage the unborn child.
Precautionary statements:	H373	May cause damage to organs (liver, kidneys, skin, nervous system) through prolonged or repeated exposure.
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe mist.
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P272	Contaminated work clothing must not be allowed out of the workplace.
	P280	Wear protective gloves, protective clothing and eye/face protection.
	P301/330/331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303/361/353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P304/340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305/351/338	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 CENTER or doctor.
	P308/313	IF exposed or concerned: Get medical advice/attention.
Supplemental information:	P363	Wash contaminated clothing before reuse.
	P405	Store locked up.
	P501	Dispose of contents/container to an approved waste disposal plant.
	None	

2.3. Other hazards

The safety and health hazards are detailed separately for Part A and Part B. The final cured material is considered nonhazardous. Upon machining, refer to the precautions in the safety data sheets for Part A and Part B.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

Hazardous Ingredients ¹	% Wt.	CAS No.	GHS Classification
1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with bisphenol A diglycidyl ether homopolymer	10 - 20	68411-71-2	Acute Tox. 4, H302
Phenol	5 - 15	108-95-2	Acute Tox. 3, H301, H331 (dust/mist) Skin Corr. 1C, H314 (C ≥ 3 %) Muta. 2, H341 STOT RE, H373 (kidneys, liver, skin, nervous system)
m-Phenylenebis(methylamine) (Synonym: m-Xylene-alpha, alpha'-Diamine)	5 - 15	1477-55-0	Acute Tox. 4, H302, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Diethylenetriamine*	5 - 10	111-40-0	Acute Tox. 2, H330 Acute Tox. 4, H302/312 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Skin Sens. 1, H317
Benzyl alcohol	3 - 7	100-51-6	Acute Tox. 4, H302, H332 Eye Irrit. 2 ^a , H319
Methyleneoxide, polymer with benzenamine, hydrogenated	3 - 7	135108-88-2	Acute Tox. 3, H301 Skin Corr. 1C, H314 Skin Sens. 1, H317 STOT RE, H373 (oral, kidneys) Aquatic Chronic 3, H412

N,N'-bis(3-aminopropyl)ethylenediamine	0.5 - 1.5	10563-26-5	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
2,4,6-Tris(dimethylaminomethyl)phenol	0.5 - 1.5	90-72-2	Acute Tox. 4, H302/312 Skin Corr. 1C, H314 Eye Dam. 1, H318
N-(3-(trimethoxysilyl)propyl)ethylenediamine	0.1 - 0.9	1760-24-3	Acute Tox. 4, H332 Acute Tox. 5, H303 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373 (respiratory system, inhalation)
N-methyl-2-pyrrolidone	0.1 - 0.4	872-50-4	Flam. Liq. 4, H227 Repr. 1B, H360D Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Other ingredients:

di-"Isononyl" phthalate

0.1 - 0.4

28553-12-0

Not classified

For full text of H-statements: see SECTION 16.

*This component is toxic by inhalation if sprayed or if aerosol/mist is created. Refer to section 11 for additional toxicity information.

¹ Classified according to: 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F), WHMIS 2022, Safe Work Australia, GHS**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****Inhalation:** Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.**Skin contact:** Flood area with water while removing contaminated clothing. Wash clothing before reuse. Consult physician.**Eye contact:** Flush eyes for at least 15 minutes with large amounts of water. Consult physician.**Ingestion:** Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Prevent aspiration of vomit. Turn victim's head to the side.**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. Provide adequate ventilation. Avoid breathing vapors. See section 8.2.2 for recommendations on personal protective equipment.**4.2. Most important symptoms and effects, both acute and delayed**

Direct contact will cause burns to skin, eyes and mucous membranes. May cause skin sensitization as evidenced by rashes or hives. Repeated and/or prolonged exposure to low concentrations of vapors may cause: sore throat.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: FIRE-FIGHTING MEASURES**5.1. Extinguishing media****Suitable extinguishing media:** Carbon dioxide, dry chemical, dry sand, limestone powder, alcohol-resistant foam, water spray**Unsuitable extinguishing media:** No data available**5.2. Special hazards arising from the substance or mixture****Hazardous combustion products:** Burning produces noxious and toxic fumes. May generate: ammonia gas, toxic nitrogen oxide gases. Incomplete combustion may form carbon monoxide.**Other hazards:** Use of water may result in the formation of very toxic aqueous solutions. Do not allow runoff from firefighting to enter drains or water courses.**5.3. Advice for firefighters**

Cool exposed containers with water. Use personal protective equipment. Recommend Firefighters wear self-contained breathing apparatus.

Australian HAZCHEM Emergency Action Code: 2 Y

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Use self-contained breathing apparatus and chemically protective clothing. Utilize exposure controls and personal protection as specified in Section 8.

6.2. Environmental Precautions

Contain spill to a small area. Keep out of sewers, streams and waterways.

6.3. Methods and material for containment and cleaning up

Scoop up and transfer to a suitable container for disposal.

6.4. Reference to other sections

Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid all direct contact. Do not breathe mist. Avoid breathing vapors. Utilize exposure controls and personal protection as specified in Section 8. Remove contaminated clothing immediately. Wash clothing before reuse. Contaminated leather including shoes cannot be decontaminated and should be discarded. Do not contaminate with sodium nitrite or other nitrosating agents, which could cause the formation of cancer-causing nitrosamine. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated area. Do not store near acids. Do not store in reactive metal containers. Keep container tightly closed.

7.3. Specific end use(s)

No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limit values**

Ingredients	OSHA PEL ¹		ACGIH TLV ²		AUSTRALIA ES ³	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with bisphenol A diglycidyl ether homopolymer	N/A	N/A	N/A	N/A	N/A	N/A
Phenol	5 (skin)	19	5 (skin)	N/A	1 (skin)	4
m-Phenylenebis(methylamine)*	N/A	N/A	0.018 (skin) (Ceiling)	N/A	(skin)	0.1 (Peak)
Diethylenetriamine	1 (Table Z-1-A)	N/A	1 (skin)	4.2	1 (skin)	4.2
Benzyl alcohol	N/A	N/A	N/A	N/A	N/A	N/A
Methyleneoxide, polymer with benzenamine, hydrogenated	N/A	N/A	N/A	N/A	N/A	N/A
N,N'-bis(3-aminopropyl)ethylenediamine	N/A	N/A	N/A	N/A	N/A	N/A
2,4,6-Tris(dimethylaminomethyl)phenol	N/A	N/A	N/A	N/A	N/A	N/A
N-(3-(trimethoxysilyl)propyl)ethylenediamine	N/A	N/A	N/A	N/A	N/A	N/A
N-methyl-2-pyrrolidone**	N/A	N/A	N/A	N/A	25 (skin) STEL: 75	103 STEL: 309
di-"Isononyl" phthalate	N/A	N/A	N/A	N/A	N/A	N/A

* U.S. National Institute for Occupational Safety and Health (NIOSH) REL: 0.1 mg/m³ (Ceiling)

** American Industrial Hygiene Association (AIHA) recommended limit: 10 ppm (skin, 8-hr TWA)

¹ United States Occupational Health & Safety Administration permissible exposure limits

² American Conference of Governmental Industrial Hygienists threshold limit values

³ Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

Biological limit values

Phenol:

Control parameter	Biological specimen	Sampling Time	Limit value	Basis	Notes
Phenol	Urine	End of shift	250 mg/g creatinine	ACGIH	Background, Nonspecific

N-methyl-2-pyrrolidone:

Control parameter	Biological specimen	Sampling Time	Limit value	Basis	Notes
5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift	100 mg/l	ACGIH	–

8.2. Exposure controls**8.2.1. Engineering measures**

Provide sufficient ventilation to keep the concentrations below the exposure limits. Provide readily accessible eye wash stations and safety showers.

8.2.2. Individual protection measures

Respiratory protection: In case of insufficient ventilation, utilize an approved organic vapor respirator (e.g., EN filter type A-P2). During spraying, wear suitable respiratory equipment.

Protective gloves: Chemical resistant gloves (e.g., nitrile rubber, butyl rubber, neoprene, PVC)

Eye and face protection: Full face shield with goggles underneath.

Other: Impervious clothing as necessary to prevent skin contact.

8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	liquid	pH	not applicable
Colour	blue	Kinematic viscosity	9,000 cSt @ 25°C (77°F)
Odour	amine	Solubility in water	insoluble
Odour threshold	not determined	Partition coefficient n-octanol/water (log value)	not applicable
Boiling point or range	not determined	Vapour pressure @ 20°C	not determined
Melting point/freezing point	not determined	Density and/or relative density	1.04 kg/l
% Volatile (by volume)	0%	Weight per volume	8.7 lbs/gal.
Flammability	not determined	Vapour density (air=1)	> 1
Lower/upper flammability or explosion limits	not determined	Rate of evaporation (ether=1)	< 1
Flash point	≥ 100°C (≥ 212°F)	% Aromatics by weight	0%
Method	Closed Cup	Particle characteristics	not applicable
Autoignition temperature	not determined	Explosive properties	not to be expected
Decomposition temperature	not determined	Oxidising properties	not determined

9.2. Other information

None

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Refer to sections 10.3 and 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents. Mineral and organic acids. Reactive metals (e.g. sodium, calcium, zinc, etc.) Materials reactive with hydroxyl compounds. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

10.6. Hazardous decomposition products

Nitric acid, NO_x, Ammonia, Carbon Monoxide, Carbon Dioxide, aldehydes, flammable hydrocarbon fragments and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Primary route of exposure under normal use:**

Inhalation, skin and eye contact. Personnel with pre-existing skin or lung allergies may be aggravated by exposure.

Acute toxicity -**Oral:**

Harmful if swallowed. ATE-mix = 840.7 mg/kg.

Substance	Test	Result
1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with bisphenol A diglycidyl ether homopolymer	LD50, rat	200 (LC0) -500 (LC100) mg/kg
Phenol	LDLo human	140 mg/kg
m-Phenylenebis(methylamine)	LD50, rat	930 mg/kg
Diethylenetriamine	LD50, rat	1,553 mg/kg
Benzyl alcohol	LD50, rat	1,620 mg/kg
Methyleneoxide, polymer with benzenamine, hydrogenated	LD50, rat	300 mg/kg
N,N'-bis(3-aminopropyl)ethylenediamine	LD50, rat	1200 mg/kg
2,4,6-Tris(dimethylaminomethyl)phenol	LD50, rat	1200 mg/kg

Dermal:

May be harmful in contact with skin. ATE-mix = 3,019.6 mg/kg.

Substance	Test	Result
Methyleneoxide, polymer with benzenamine, hydrogenated	LD50, rabbit	2,673 mg/kg (estimated)
Phenol	LD50, rat	525 mg/kg
m-Phenylenebis(methylamine)	LD50, rabbit	> 2,000 mg/kg
Diethylenetriamine	LD50, rabbit	1,045 mg/kg
Benzyl alcohol	LD50, rabbit	> 2,000 mg/kg
N,N'-bis(3-aminopropyl)ethylenediamine	LD50, rabbit	300 mg/kg
2,4,6-Tris(dimethylaminomethyl)phenol	LD50, rat	1,280 mg/kg

Inhalation:

Toxic if inhaled (mist). ATE-mix = 0.68mg/l (mist); 21.01 mg/l (vapour).

Substance	Test	Result
Diethylenetriamine	LC50, rat, 4 h	> 0.07-<0.3 mg/l/4 h (mist)
Diethylenetriamine	LC50, rat, 4 h	No mortality at vapor saturation level
Benzyl alcohol	LC50, rat	> 4.178 mg/l (mist) ≈ 8.8 mg/l (vapour)
Phenol	LC50, rat	0.5 mg/l (dust/mist, cATpE)
m-Phenylenebis(methylamine)	LC50, rat	1.34 mg/l (mist)
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LD50 Inhalation, rat	1.49-2.44 mg/l (mist)

Skin corrosion/irritation:

Causes burns.

Substance	Test	Result
Methyleneoxide, polymer with benzenamine, hydrogenated	In vitro test	Corrosive
m-Phenylenebis(methylamine)	Skin irritation, rabbit (OECD 404)	Corrosive
Diethylenetriamine	Skin irritation, rabbit	Corrosive
Benzyl alcohol	Skin irritation, rabbit (OECD 404)	Not irritating
2,4,6-Tris(dimethylaminomethyl)phenol	Skin irritation, rabbit (OECD 404)	Corrosive

Serious eye damage/irritation:

Causes serious eye damage.

Substance	Test	Result
Diethylenetriamine	Eye irritation	Corrosive
2,4,6-Tris(dimethylaminomethyl)phenol	Eye irritation, rabbit	Severe irritation

Respiratory or skin sensitisation:

May cause skin sensitization as evidenced by rashes or hives.

Substance	Test	Result
Diethylenetriamine	Skin sensitization, guinea pig	Sensitizing
N-methyl-2-pyrrolidone	Skin sensitization, mouse (OECD 429)	Not sensitizing

Germ cell mutagenicity:

Suspected of causing genetic defects. Phenol: micronucleus test (OECD 474) mouse, male and female, positive. Methyleneoxide, polymer with benzenamine, hydrogenated: OECD 471 (Ames test) 473, negative. (chromosomal aberration). m-Phenylenebis(methylamine) Diethylenetriamine, Benzyl alcohol, N-methyl-2-pyrrolidone: based on available data, the classification criteria are not met. Diethylenetriamine: this substance was non-mutagenic in a bacterial assay and in a cultured mammalian cell assay.

Carcinogenicity:

This product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or the European Chemicals Agency (ECHA).

Reproductive toxicity:

N-methyl-2-pyrrolidone has produced reproductive/teratogenic effects in animal studies. Methyleneoxide, polymer with benzenamine, hydrogenated: based on available data, the classification criteria are not met. Benzyl alcohol, N,N'-bis(3-aminopropyl)ethylenediamine: based on available data, the classification criteria are not met. Diethylenetriamine: not expected to cause toxicity; effects on or via lactation: data lacking.

STOT – single exposure:

Benzyl alcohol, N,N'-bis(3-aminopropyl)ethylenediamine: based on available data, the classification criteria are not met. Diethylenetriamine: may cause respiratory irritation.

STOT – repeated exposure:

Phenol: may cause damage to the nervous system, liver, kidneys and skin through prolonged or repeated exposure. Methyleneoxide, polymer with benzenamine, hydrogenated: may cause damage to the kidneys through prolonged or repeated exposure. Diethylenetriamine, Benzyl alcohol, N,N'-bis(3-aminopropyl)ethylenediamine: based on available data, the classification criteria are not met.

Aspiration hazard:

Not classified as an aspiration toxicant.

Other information:

None known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

12.1. Toxicity

Benzyl alcohol: 96 h LC50 (fish) 10 mg/l; 72 h IC50 (for algae) 700 mg/l. Methyleneoxide, polymer with benzenamine, hydrogenated: 48 h EC50 (for daphnia) = 15.4 mg/l. m-Phenylenebis(methylamine): 72 h EC50 (for algae): 12 mg/l.

12.2. Persistence and degradability

Unreacted components (Parts A and B), improperly released to the environment, can cause ground and water pollution. Benzyl alcohol: expected to biodegrade relatively quickly. m-Phenylenebis(methylamine), biodegradation, OECD 301B (28 days): 49%, not readily biodegradable. Diethylenetriamine: expected to be resistant to biodegradation. N-methyl-2-pyrrolidone: readily biodegradable.

12.3. Bioaccumulative potential

Methyleneoxide, polymer with benzenamine, hydrogenated: does not bioaccumulate. m-Phenylenebis(methylamine): low potential for bioaccumulation (BCF < 100). Diethylenetriamine: bioconcentration in aquatic organisms is not expected to be significant (log Kow: -2.13). Benzyl alcohol: low potential for bioaccumulation. N-methyl-2-pyrrolidone: not expected to bioaccumulate (log Kow < 1).

12.4. Mobility in soil

Liquid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). m-Phenylenebis(methylamine), log Kow (QSAR): 3.11. Diethylenetriamine: expected to be highly mobile in soil. N-methyl-2-pyrrolidone: expected to have very high mobility in soils.

12.5. Endocrine disrupting properties

None known

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Combine resin and curative. The final cured material is considered nonhazardous. Landfill sealed containers with a properly licensed facility. Unreacted components are a special waste. Check local, state and national/federal regulations and comply with the most stringent requirement.

SECTION 14: TRANSPORT INFORMATION**14.1. UN number or ID number**

ADG/ADR/RID/ADN/IMDG/ICAO: UN2735
 TDG: UN2735
 US DOT: UN2735

14.2. UN proper shipping name

ADG/ADR/RID/ADN/IMDG/ICAO: AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE) / 2,2'-IMINODIETHYLAMINE)
 TDG: AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE) / 2,2'-IMINODIETHYLAMINE)
 US DOT: AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE) / 2,2'-IMINODIETHYLAMINE)

14.3. Transport hazard class(es)

ADG/ADR/RID/ADN/IMDG/ICAO: 8
 TDG: 8
 US DOT: 8

14.4. Packing group

ADG/ADR/RID/ADN/IMDG/ICAO: II
 TDG: II
 US DOT: II

14.5. Environmental hazards

MARINE POLLUTANT

14.6. Special precautions for user

NO SPECIAL PRECAUTIONS FOR USER

14.7. Maritime transport in bulk according to IMO instruments

NOT APPLICABLE

14.8. Other information

US DOT: ERG NO. 153
 MAY BE SHIPPED AS LIMITED QUANTITIES IN PACKAGING HAVING A RATED CAPACITY GROSS WEIGHT OF 66 LB. OR LESS AND IN INNER PACKAGES NOT OVER 1 LITER (49 CFR 173.154 (B),(1))
 IMDG: EMS F-A, S-B, IMDG SEGREGATION GROUP 18-ALKALIS
 ADR: CLASSIFICATION CODE C7, TUNNEL RESTRICTION CODE (E)
 ADG HAZCHEM CODE : 2X HIN: 88/80

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. National regulations****US EPA SARA TITLE III****312 Hazards:****Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:**

Acute toxicity	Phenol	108-95-2	5 - 15%
Skin corrosion	N-methyl-2-pyrrolidone	872-50-4	Below de minimis
Serious eye damage	concentration		
Skin sensitization			
Germ cell mutagenicity			
Reproductive toxicity			
Specific target organ toxicity – repeated exposure			

TSCA: All components are listed or exempted.

Other national regulations: None**SECTION 16: OTHER INFORMATION**

Abbreviations and acronyms:	ADG: Australian Dangerous Goods Code
	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
	ATE: Acute Toxicity Estimate
	BCF: Bioconcentration Factor
	cATpE: Converted Acute Toxicity point Estimate
	ES: Exposure Standard
	GHS: Globally Harmonized System
	ICAO: International Civil Aviation Organization
	IMDG: International Maritime Dangerous Goods
	LC50: Lethal Concentration to 50 % of a test population
	LD50: Lethal Dose to 50% of a test population
	LOEL: Lowest Observed Effect Level
	N/A: Not Applicable
	NA: Not Available
	NOEC: No Observed Effect Concentration
	NOEL: No Observed Effect Level
	OECD: Organization for Economic Co-operation and Development
	(Q)SAR: Quantitative Structure-Activity Relationship
	REL: Recommended Exposure Limit
	RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
	SDS: Safety Data Sheet
	STEL: Short Term Exposure Limit
	STOT RE: Specific Target Organ Toxicity, Repeated Exposure
	STOT SE: Specific Target Organ Toxicity, Single Exposure
	TDG: Transportation of Dangerous Goods (Canada)
	TWA: Time Weighted Average
	US DOT: United States Department of Transportation
	WHMIS: Workplace Hazardous Materials Information System
	Other abbreviations and acronyms can be looked up at www.wikipedia.org .

Key literature references and sources for data:	Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)
	Chemical Classification and Information Database (CCID)
	European Chemicals Agency (ECHA) - Information on Chemicals
	Hazardous Chemical Information System (HCIS)
	National Institute of Technology and Evaluation (NITE)
	U.S. National Library of Medicine Toxicology Data Network (TOXNET)

Procedure used to derive the classification for mixtures according to GHS:

Classification	Classification procedure
Acute Tox. 4, H302, H331	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Repr. 1B, H360D	Calculation method
STOT RE 2, H373	Calculation method

Relevant H-statements:

H301: Toxic if swallowed.
 H302: Harmful if swallowed.
 H311: Toxic in contact with skin.
 H312: Harmful in contact with skin.
 H303: May be harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H319: Causes serious eye irritation.
 H330: Fatal if inhaled.
 H331: Toxic if inhaled.
 H332: Harmful if inhaled.
 H335: May cause respiratory irritation.
 H341: Suspected of causing genetic defects.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H412: Harmful to aquatic life with long lasting effects.

Hazard pictogram names: Corrosion, skull and crossbones, health hazard, exclamation mark

Further information: None

Date of last revision: 13 January 2025

Changes to the SDS in this revision: Original issue.

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.