

SAFETY DATA SHEET

in accordance with 2020/878/EU (REACH, Annex II) 29 CFR 1910.1200, WHMIS 2015 and Safe Work Australia

Revision date: 16 January 2024 Date of previous issue: 9 January 2024 SDS No. 474B-3

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

1.1. Product identifier

ARC MX FG (Part B)

Unique Formula Identifier (UFI): 6G92-DHF6-SSAD-C0FC

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

Relevant identified uses: Mixed with Part A for repair of damage caused by abrasion, erosion or corrosion in FDA compliant

applications.

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: Supplier:

A.W. CHESTERTON COMPANY

860 Salem Street

Groveland, MA 01834-1507, USA

Tel. +1 978-469-6446 Fax: +1 978-469-6785

(Mon. - Fri. 8:30 - 5:00 PM EST) SDS requests: <u>www.chesterton.com</u>

E-mail (SDS questions): ProductSDSs@chesterton.com

E-mail: customer.service@chesterton.com

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive, Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055 EU: Chesterton International GmbH, Am Lenzenfleck 23, D85737 Ismaning, Germany – Tel. +49-89-996-5460

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 Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / Safe Work Australia / GHS

Serious eye damage, Category 1, H318

Skin irritation, Category 2, H315

Skin sensitization, Category 1, H317

Hazardous to the aquatic environment, Chronic, Category 2, H411

2.1.2. Additional information

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

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / Safe Work Australia / GHS

Hazard pictograms:

Signal word: Danger

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Hazard statements:	H318 H315 H317 H411	Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements:	P264 P272 P273 P280 P302/352 P305/351/338 P310 P333/313 P362/364 P391 P501	Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye/face protection. IF ON SKIN: Wash with plenty of soap and water. 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. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. Dispose of contents/container to an approved waste disposal plant.
Supplemental information:	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.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS					
3.2. Mixtures					
Hazardous Ingredients ¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification	SCL, M-factor, ATE
Formaldehyde polymer with 1,3- benzenedimethanamine and phenol	6 - 11	57214-10-5 500-137-0	NA	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M (acute/chronic): 1
Benzyl alcohol	3 - 7	100-51-6 202-859-9	NA	Acute Tox. 4, H302, H332 Eye Irrit. 2A, H319	ATE (oral): 1,620 mg/kg ATE (dermal): > 2,000 mg/kg ATE (inhalation, vapour): 11 mg/l
m-Phenylenebis(methylamine) (Synonym: m-Xylene-alpha, alpha'- Diamine)	3 - 6	1477-55-0 216-032-5	NA	Acute Tox. 4, H302, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	ATE (oral): 980 mg/kg ATE (dermal): > 3,000 mg/kg ATE (inhalation, mist): 1.34 mg/l
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with ethylenediamine	0.5 - 1.5	72480-18-3 500-253-1	NA	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M (acute/chronic): 1 ATE (oral): 500 mg/kg
Other ingredients1:					
Aluminum oxide	65 - 75	1344-28-1 215-691-6	NA	Not classified*	ATE (oral): > 5,000 mg/kg
Amorphous silica	1 - 5	112945-52-5, 7631-86-9	NA	Not classified **	ATE (oral): > 5,000 mg/kg ATE (dermal): > 2,000 mg/kg
*Substance with a workplace exposure limit. For full text of H-statements: see SECTION 16.					

¹ Classified according to: • 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F)

^{• 1272/2008/}EC, GHS, REACH

[•] WHMIS 2015

[·] Safe Work Australia

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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: Wash with plenty of soap and water. Take off contaminated clothing. Contact physician if irritation persists.

Eye contact: Flush eyes for at least 20 minutes with large amounts of water. Contact physician.

Ingestion: Do not induce vomiting. If conscious, dilute stomach contents with large quantities of milk or water. Contact

physician immediately.

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. See section 8.2.2 for recommendations on personal

protective equipment.

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

Risk of serious damage to eyes. Causes skin irritation. May cause an allergic skin reaction. Excessive inhalation of vapors or mists can cause coughing, chest tightness and difficulty breathing.

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

Treat symptoms.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide, dry chemical, foam, water spray.

Unsuitable extinguishing media: No data available

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: 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

A face shield should be worn. Use personal protective equipment. Recommend Firefighters wear self-contained breathing apparatus.

Australian HAZCHEM Emergency Action Code: 2 Z

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.

6.2. Environmental Precautions

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

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.

7.2. Conditions for safe storage, including any incompatibilities

Store between 10°C (50°F) and 32°C (90°F) in a dry area.

7.3. Specific end use(s)

No special precautions.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1. Control parameters Occupational exposure limit values OSHA PEL¹ **ACGIH TLV² UK WEL**³ Ingredients **AUSTRALIA ES⁴** mg/m³ mg/m³ ppm mg/m³ mg/m³ ppm ppm ppm Formaldehyde polymer with N/A N/A N/A N/A N/A N/A N/A N/A 1,3-benzenedimethanamine and phenol N/A N/A N/A N/A N/A N/A N/A N/A Benzyl alcohol m-Phenylenebis(methylamine) N/A N/A 0.018 (skin) N/A N/A 0.1 (Peak) (Ceiling) 4,4'-Isopropylidenediphenol, N/A N/A N/A N/A N/A N/A N/A N/A oligomeric reaction products with 1-chloro-2,3epoxypropane, reaction products with ethylenediamine Aluminum oxide (total) 15 (resp.) 1 (inhal.) 10 N/A 10 (resp.) 5 (resp.) 4 10* 6 N/A 2 Amorphous silica 20 mppcf 6 (total) (inhal.)

(resp.)

3

2.4

(resp.)

Biological limit values

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

Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:

Workers

Substance	Route of exposure	Potential health effects	DNEL
Formaldehyde polymer with 1,3- benzenedimethanamine and phenol	Inhalation	Acute effects, local	6 mg/m ³
		Acute effects, systemic	2 mg/m ³
		Chronic effects, local	0.6 mg/m ³
		Chronic effects, systemic	0.02 mg/m ³
	Dermal	Acute effects, local	2.8 µg/cm ²
		Acute effects, systemic	7.72 µg mg/kg bw/day
		Chronic effects, local	0.167 µg/cm ²
		Chronic effects, systemic	0.385 mg/kg bw/day
Benzyl alcohol	Inhalation	Acute effects, local / Chronic effects, local	no data available
		Acute effects, systemic	110 mg/m ³
		Chronic effects, systemic	22 mg/m ³
	Dermal	Acute effects, local / Chronic effects, local	no data available
		Acute effects, systemic	40 mg/kg bw/day
		Chronic effects, systemic	8 mg/kg bw/day
m-Phenylenebis(methylamine)	Inhalation	Chronic effects, local	0.2 mg/m ³
		Chronic effects, systemic	1.2 mg/m ³
	Dermal	Chronic effects, systemic	0.33 mg/kg bw/day
Aluminum oxide	Inhalation	Chronic effects, local, Chronic effects, systemic	15.63 mg/m ³

^{*} Particles Not Otherwise Specified (PNOS)

¹ United States Occupational Health & Safety Administration permissible exposure limits

² American Conference of Governmental Industrial Hygienists threshold limit values

³ EH40 Workplace exposure limits, Health & Safety Executive

⁴ Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:

Substance	Environmental protection target	PNEC
Formaldehyde polymer with 1,3-	Fresh water	20 μg/l
benzenedimethanamine and phenol		
	Marine water	2 μg/l
	Freshwater sediments	0.1 mg/kg
	Marine sediments	0.01 mg/kg
	Microorganisms in sewage treatment	30 mg/l
	Soil (agricultural)	0.024 mg/kg
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Freshwater sediments	5.27 mg/kg
	Marine sediments	0.527 mg/kg
	Microorganisms in sewage treatment	39 mg/l
	Soil (agricultural)	0.456 mg/kg
m-Phenylenebis(methylamine)	Fresh water	0.094 mg/l
	Water, intermittent release	0.152 mg/l
	Marine water	0.009 mg/l
	Freshwater sediments	0.43 mg/kg
	Marine sediments	0.043 mg/kg
	Microorganisms in sewage treatment	10 mg/l
	Soil (agricultural)	0.045 mg/kg

8.2. Exposure controls

8.2.1. Engineering measures

Provide sufficient ventilation to keep the vapor concentrations below the exposure limits.

8.2.2. Individual protection measures

Respiratory protection: Not normally needed. If exposure limits are exceeded, use an approved organic vapor respirator

(e.g., EN filter type A/P2).

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

Eye and face protection: Safety goggles.

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

рΗ Physical state viscous paste not applicable Kinematic viscosity 26,000 mm²/s @ 25°C Colour yellow Odour Solubility in water insoluble amine **Odour threshold** not determined Partition coefficient not applicable n-octanol/water (log value) Boiling point or range not applicable not determined Vapour pressure @ 20°C not applicable Density and/or relative density Melting point/freezing point 2.487 kg/l % Volatile (by volume) 0% 20.7 lbs/gal. Weight per volume > 1 **Flammability** not determined Vapour density (air=1) Lower/upper flammability or Rate of evaporation (ether=1) not determined < 1 explosion limits Flash point > 99°C (> 210°F) % Aromatics by weight 0% Method PM Closed Cup Particle characteristics not applicable

Autoignition temperature not applicable Explosive properties not determined **Decomposition temperature** not determined Oxidising properties not determined

9.2. Other information

Dynamic viscosity: 65,000 cps @ 25°C

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Refer to sections 10.3 and 10.5.

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10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

None

10.5. Incompatible materials

Strong acids and strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide, NOx, Ammonia and other toxic fumes (by combustion). Nitrogen oxide can react with water vapors to form corrosive nitric acid.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 / GHS

Primary route of exposure under normal use:

Inhalation, skin and eye contact. Personnel with pre-existing allergies and skin and eye

disorders may be aggravated by exposure.

Acute toxicity -

Oral:Based on available data on components, the classification criteria are not met. ATE-mix = 5,213 mg/kg.

Substance Test Result Benzyl alcohol LD50, rat 1,620 mg/kg m-Phenylenebis(methylamine) LD50, rat 980 mg/kg 4,4'-Isopropylidenediphenol, oligomeric LD50, rabbit > 300 - < 2,000 reaction products with 1-chloro-2,3mg/kg epoxypropane, reaction products with ethylenediamine Aluminum oxide LD50, rat > 5.000 Amorphous silica LD50, rat > 5,000 mg/kg

Dermal: Based on available data on components, the classification criteria are not met.

Substance	Test	Result
Benzyl alcohol	LD50, rabbit	> 2,000 mg/kg
m-Phenylenebis(methylamine)	LD50, rabbit	> 2,000 mg/kg
Amorphous silica	LD50, rat	> 2,000 mg/kg

Inhalation:

Excessive inhalation of vapors or mists can cause coughing, chest tightness and difficulty breathing. ATE-mix = 296.74 mg/l (vapour).

Substance	Test	Result
Benzyl alcohol	cATpE	11 mg/l (vapour)
Benzyl alcohol	LC0, rat	4.178 mg/l (mist, maximum attainable concentration)
m-Phenylenebis(methylamine)	LC50, rat, 4 h	1.34 mg/l (mist)

Skin corrosion/irritation: Causes skin irritation.

Substance	Test	Result
ARC MX FG (Part B)	Corrositex® (OECD 435)	Non-corrosive
Benzyl alcohol	Skin irritation, rabbit (OECD 404)	Not irritating
m-Phenylenebis(methylamine)	Skin irritation, rabbit (OECD 404)	Corrosive
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with ethylenediamine	Skin irritation, rabbit (OECD 404)	Not irritating

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Serious eve damage/

irritation:

Risk of serious damage to eyes.

Respiratory or skin

sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

Benzyl alcohol, m-Phenylenebis(methylamine), Aluminum oxide: based on available data, the

classification criteria are not met.

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:

Benzyl alcohol, m-Phenylenebis(methylamine), Aluminum oxide: based on available data, the

classification criteria are not met.

STOT - single exposure:

Excessive inhalation of vapors or mists can cause coughing, chest tightness and difficulty

breathing.

STOT - repeated exposure:

Benzyl alcohol, m-Phenylenebis(methylamine), Aluminum oxide: based on available data, the

classification criteria are not met.

Aspiration hazard:

Not expected to be an aspiration toxicant based on viscosity.

11.2. Information on other hazards

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

Toxic to aquatic life with long lasting effects. Formaldehyde polymer with 1,3-benzenedimethanamine and phenol: 96 hr EC50, Rainbow trout = 0.76 mg/l (similar material). m-Phenylenebis(methylamine) is harmful to aquatic organisms [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. m-Phenylenebis(methylamine): biodegradation, OECD 301B (28 days) = 49%, not readily biodegradable. Benzyl alcohol: readily biodegradable. Aluminum oxide, Amorphous silica: inorganic substances.

12.3. Bioaccumulative potential

Benzyl alcohol: low potential for bioaccumulation (log Kow = 1.1). m-Phenylenebis(methylamine): low potential for bioaccumulation (BCF < 100).

12.4. Mobility in soil

Viscous paste. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Benzyl alcohol: expected to have very high mobility in soils. m-Phenylenebis(methylamine): log Koc = 3.11 (QSAR).

12.5. Results of PBT and vPvB assessment

Not available

12.6. Endocrine disrupting properties

None known

12.7. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Unreacted components are a special waste (classified as hazardous according to 2008/98/EC). Combine resin and curative. The final cured material is considered nonhazardous. Landfill sealed containers with a properly licensed facility. May be incinerated at an appropriate facility. 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:
 UN3077

 TDG:
 UN3077

 US DOT:
 UN3077

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14.2. UN proper shipping name

ADG/ADR/RID/ADN/IMDG/ICAO: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(1,3-BENZENEDIMETHANAMINE/ M-PHENYLENEBIS(METHYLAMINE))

TDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(1,3-BENZENEDIMETHANAMINE/ M-PHENYLENEBIS(METHYLAMINE)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(1,3-BENZENEDIMETHANAMINE/ M-PHENYLENEBIS(METHYLAMINE))

14.3. Transport hazard class(es)

US DOT:

ADG/ADR/RID/ADN/IMDG/ICAO: 9 TDG: 9 US DOT: 9

14.4. Packing group

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

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.171,

MAY BE SHIPPED AS NON-RESTRICTED IN NON-BULK PACKAGINGS (882 LBS. OR LESS) BY MOTOR VEHICLE, RAIL CAR OR AIRCRAFT.

(49 CFR 171.4(C)) **IMDG:** EMS. F-A, S-F

MAY BE SHIPPED AS NON-RESTRICTED IN SINGLE OR COMBINATION PACKAGINGS CONTAINING A NET MASS PER SINGLE OR INNER PACKAGING OF 5 KG OR LESS.(IMDG CODE AMENDMENT 37-14, 2.10.2.7)

ICAO/IATA: MAY BE SHIPPED AS NON-RESTRICTED IN SINGLE OR COMBINATION PACKAGINGS CONTAINING A NET MASS PER SINGLE OR INNER PACKAGING OF 5 KG OR LESS. (IATA DANGEROUS GOODS REGULATION 56TH EDITION, 4.4 SPECIAL PROVISIONS A197)

ADR: CLASSIFICATION CODE M6 TUNNEL RESTRICTION CODE (E)

MAY BE SHIPPED AS NON-RESTRICTED IN SINGLE OR COMBINATION PACKAGINGS CONTAINING A NET MASS PER SINGLE OR INNER PACKAGING OF 5 KG OR LESS. (ADR 2015 VOLUME 1, CHAPTER 3.3 SPECIAL PROVISIONS 375)

ADG HAZCHEM CODE: 2Z HIN: 90

SECTION 15: REGULATORY INFORMATION

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

15.1.1. EU regulations

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: None

Other EU regulations: Directive 94/33/EC on the protection of young people at work.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances (hazard category: E2, Hazardous to the Aquatic Environment in Category Chronic 2; qualifying

quantities: 200 t, 500 t)

15.1.2. National regulations

US EPA SARA TITLE III

312 Hazards: Chemicals subject to reporting requirements of Section 313 of

EPCRA and of 40 CFR 372:

Serious eye damage None

Skin irritation Skin sensitization

TSCA: All chemical components are listed or exempted.

Other national regulations: National implementations of the EC Directives referred to in section 15.1.1.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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SECTION 16: OTHER INFORMATION

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Abbreviations ADG: Australian Dangerous Goods Code

and acronyms: 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

CLP: Classification Labelling Packaging Regulation (1272/2008/EC)

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

PBT: Persistent, Bioaccumulative and Toxic substance (Q)SAR: Quantitative Structure-Activity Relationship

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)

REL: Recommended Exposure Limit

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SCL: Specific Concentration Limit

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 vPvB: very Persistent and very Bioaccumulative substance

WEL: Workplace Exposure Limit

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)

Swedish Chemicals Agency (KEMI)

U.S. National Library of Medicine Toxicology Data Network (TOXNET)

Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP] / GHS:

Classification	Classification procedure
Eye Dam. 1, H318	Calculation method
Skin Irrit. 2, H315	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

Relevant H-statements: H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction. H318: Causes serious eve damage.

H332: Harmful if inhaled. H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.

Hazard pictogram names: Corrosion, exclamation mark, environment

Further information: None

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Date of last revision: 16 January 2024

Changes to the SDS in this revision: Sections 3, 8.1, 11.1, 12.2.

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.

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