

SAFETY DATA SHEET

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

Revision date: 22 April 2022 Date of previous issue: – SDS No. 481

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

1.1. Product identifier

638 EMG 100 # 2 Electric Motor Grease

Unique Formula Identifier (UFI): Not available

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

Synthetic base oil lubricating grease. Superior multi-purpose grease for heavy loads, high heat and corrosive environments.

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 / GHS

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, 29 CFR 1910.1200, WHMIS 2015, Safe Work Australia and GHS. However, a safety data sheet is being supplied for it on request as it contains at least one substance posing human health or environmental hazards.

2.1.2. Australian statement of hazardous nature

Not classified as hazardous according to criteria of Safe Work Australia.

2.1.3. Additional information

None

2.2. Label elements

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

Hazard pictograms:NoneSignal word:NoneHazard statements:NonePrecautionary statements:None

Date: 22 April 2022 SDS No. 481

Supplemental information: EUH208 Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Sulfonic acids,

petroleum, calcium salts and Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction. Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts and Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an

allergic reaction.

EUH210 Safety data sheet available on request.

2.3. Other hazards

None

SECTION 3: COMPOSITION/INFORM	MATION ON	INGREDIENTS			
3.2. Mixtures					
Hazardous Ingredients ¹	% W t.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification	SCL, M-factor, ATE
4,4'-Methylene bis(dibutyldithiocarbamate)	5 - 10	10254-57-6 233-593-1	NA	Aquatic Chronic 4, H413	ATE (oral): 16,000 mg/kg ATE (dermal): > 2,000 mg/kg
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	1 - 5	68584-23-6 271-529-4	NA	Skin Sens. 1B, H317	ATE (oral): > 5,000 mg/kg ATE (dermal): > 5,000 mg/kg ATE (inhalation, mist): > 1.9 mg/l
Calcium dodecylbenzenesulphonate	1 - <3	26264-06-2 247-557-8	NA	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 4, H413	ATE (oral): 1,300 mg/kg ATE (dermal): > 5,000 mg/kg
Bis(nonylphenyl)amine	1 - 5	36878-20-3 253-249-4	NA	Aquatic Chronic 4, H413	ATE (oral): > 5,000 mg/kg
Sulfonic acids, petroleum, calcium salts	1 - 5	61789-86-4 263-093-4	NA	Skin Sens. 1B, H317	ATE (oral): > 5,000 mg/kg ATE (dermal): > 5,000 mg/kg ATE (inhalation, mist): > 1.9 mg/l
Benzenesulfonic acid, mono-C16-24- alkyl derivs., calcium salts	1 - 5	70024-69-0 274-263-7	NA	Skin Sens. 1B, H317	ATE (oral): > 5,000 mg/kg ATE (dermal): > 5,000 mg/kg ATE (inhalation, mist): > 1.9 mg/l
Other ingredients:		.=			.== / 1) 0 1=0
Calcium carbonate	10 - 20	471-34-1 207-439-9	NA	Not classified**	ATE (oral): 6,450 mg/kg
Baseoil – unspecified*	10 - 20	64741-88-4 265-090-8	NA	Not classified**	ATE (oral): > 5,000 mg/kg ATE (dermal): > 2,000 mg/kg ATE (inhalation, mist): > 5.53 mg/l
For full text of H-statements: see SEC**Contains less than 3 % DMSO extract**Substance with a workplace exposur	t as measure	ed by IP 346.			

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

Date: 22 April 2022 SDS No. 481

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 skin with soap and water. Contact physician if irritation persists.

Eye contact: Flush eyes for at least 15 minutes with large amounts of water. Contact physician immediately.

Ingestion: Do not induce vomiting. Contact physician.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

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

May cause mild eye irritation.

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

High velocity injection under the skin may leave a bloodless puncture wound subject to infection, disfigurement, lack of blood and may require amputation. Immediate treatment by a surgical specialist is recommended.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide, dry chemical, dry sand, foam or water fog

Unsuitable extinguishing media: High volume water jet5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon Monoxide, Carbon Dioxide, oxides of Nitrogen, Sulfur and Calcium and other toxic

fumes. Dense smoke.

Other hazards: None known 5.3. Advice for firefighters

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

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

Contain spill to a small area. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in 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. Wash before eating, drinking or smoking. Keep container closed when not in use. Protect from contamination. Injection into the body without immediate medical treatment may cause loss of affected part of the body.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area. Keep away from oxidising agents.

7.3. Specific end use(s)

No special precautions.

Date: 22 April 2022 SDS No. 481

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values

Ingredients	OSH <i>A</i> ppm	NPEL ¹ mg/m ³	ACGII- ppm	HTLV ² mg/m ³	UK V ppm	VEL³ mg/m³	AUSTR.	ALIA ES ⁴ mg/m ³
4,4'-Methylene bis(dibutyldithiocarbamate)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzenesulfonic acid, C10-16- alkyl derivs., calcium salts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calcium dodecylbenzenesulphonate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis(nonylphenyl)amine	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfonic acids, petroleum, calcium salts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzenesulfonic acid, mono- C16-24-alkyl derivs., calcium salts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calcium carbonate	(total) (resp.)	15 5	(inhal.) (resp.)	10 * 3	(inhal.) (resp.)	10 4	N/A	10
Oil mist, mineral	N/A	5	N/A	5	`N/A	N/A	N/A	5

^{*} Particles Not Otherwise Specified (PNOS)

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
Bis(nonylphenyl)amine	Inhalation	Chronic effects, systemic	4.37 mg/m ³
	Dermal	Chronic effects, systemic	0.62 mg/kg

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

Substance	Environmental protection target	PNEC
Bis(nonylphenyl)amine	Fresh water	0.1 mg/l
	Freshwater sediments	132,000 mg/kg
	Marine water	0.01 mg/l
	Marine sediments	13,200 mg/kg

8.2. Exposure controls

8.2.1. Engineering measures

No special requirements. If exposure limits are exceeded, provide adequate ventilation.

8.2.2. Individual protection measures

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

mists.

Protective gloves: Chemical resistant gloves (e.g., neoprene)

Eye and face protection: Safety goggles or glasses.

Other: Long sleeves, long pants and good personal hygiene to minimize skin contact.

8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

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

Date: 22 April 2022 SDS No. 481

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical statesemi-solidpHnot applicableColourgreenKinematic viscositynot determinedOdourmildSolubility in waterinsolubleOdour thresholdnot determinedPartition coefficientnot applicable

n-octanol/water

Boiling point or range not applicable Vapour pressure @ 20°C < 0.0008 hPa (0.00 mm Hg)

Melting point/freezing pointnot determinedDensity and/or relative density1.0 kg/l% Volatile (by volume)negligibleWeight per volume8.3 lbs/gal.Flammabilityno data availableVapour density (air=1)> 1Lower/upper flammabilitynot determinedRate of evaporation (ether=1)< 1</td>

Lower/upper flammability or explosion limits

Flash point > 180°C (> 356°F) % Aromatics by weight 0

MethodPM Closed CupParticle characteristicsnot applicableAutoignition temperaturenot determinedExplosive propertiesnot determinedDecomposition temperatureno data availableOxidising propertiesnot 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

Open flames and red hot surfaces.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide, oxides of Nitrogen, Sulfur and Calcium and other toxic fumes.

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:

Skin and eye contact.

Acute toxicity -

Oral: ATE-mix > 5,000 mg/kg

Substance	Test	Result
4,4'-Methylene	LD50, rat	16,000 mg/kg
bis(dibutyldithiocarbamate)		
Benzenesulfonic acid, C10-16-alkyl	LD50, rat, (OECD 401)	> 5,000 mg/kg
derivs., calcium salts		
Calcium dodecylbenzenesulphonate	LD50, rat	1,300 mg/kg
Bis(nonylphenyl)amine	LD50, rat	> 5,000 mg/kg
Sulfonic acids, petroleum, calcium salts	LD50, rat, (OECD 401)	> 5,000 mg/kg
Benzenesulfonic acid, mono-C16-24-	LD50, rat, (OECD 401)	> 5000 mg/kg
alkyl derivs., calcium salts		
Distillates (petroleum), solvent-refined	LD50, rat	> 5000 mg/kg
heavy paraffinic		

Date: 22 April 2022 SDS No. 481

Dermal: ATE-mix > 5,000 mg/kg

Substance	Test	Result
4,4'-Methylene	LD50, rabbit	> 2,000 mg/kg
bis(dibutyldithiocarbamate)		
Benzenesulfonic acid, C10-16-alkyl	LD50, rabbit	> 5,000 mg/kg
derivs., calcium salts		
Calcium dodecylbenzenesulphonate	LD50, rat	> 5,000 mg/kg
		(read-across)
Sulfonic acids, petroleum, calcium salts	LD50, rat (OECD 402)	> 5,000 mg/kg
Benzenesulfonic acid, mono-C16-24-	LD50, rat (OECD 402)	> 5000 mg/kg
alkyl derivs., calcium salts		
Distillates (petroleum), solvent-refined	LD50, rabbit	> 2,000 mg/kg
heavy paraffinic		(read-across)

Inhalation:

Not classified, based on available data.

Substance	Test	Result
Benzenesulfonic acid, C10-16-alkyl	LC50, rat, mist (OPP 81-	> 1.9 mg/l
derivs., calcium salts	3)	-
Sulfonic acids, petroleum, calcium salts	LC50, rat, mist (OPP 81-	> 1.9 mg/l
·	3)	
Benzenesulfonic acid, mono-C16-24-	LC50, rat, mist (OPP 81-	> 1.9 mg/l
alkyl derivs., calcium salts	3)	-
Distillates (petroleum), solvent-refined	LC50, rat, mist	> 5.53 mg/l
heavy paraffinic		

Skin corrosion/irritation:

Not classified, based on data from similar materials.

Substance	Test	Result
Benzenesulfonic acid, C10-16-alkyl	Skin irritation, rabbit	Not irritating
derivs., calcium salts	(OECD 404)	
Calcium dodecylbenzenesulphonate	Skin irritation, rabbit	Irritating
Bis(nonylphenyl)amine	Skin irritation, rabbit	Not irritating

Serious eye damage/ irritation:

Not classified, based on data from similar materials. May cause mild eye irritation.

Substance	Test	Result
Benzenesulfonic acid, C10-16-alkyl	Eye irritation, rabbit	Not irritating
derivs., calcium salts	(OECD 405)	
Calcium dodecylbenzenesulphonate	Eye irritation, rabbit	Severe irritation
·	(OECD 405)	
Bis(nonylphenyl)amine	Eye irritation, rabbit	Not irritating
Sulfonic acids, petroleum, calcium salts	Eye irritation, rabbit	Not irritating
Benzenesulfonic acid, mono-C16-24-	Eye irritation, rabbit	Not irritating
alkyl derivs., calcium salts	-	

Respiratory or skin sensitisation:

Does not cause skin sensitisation, based on data from similar materials. Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts, Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts: probability or evidence of low to moderate skin sensitisation rate in humans.

Substance	Test	Result
Calcium dodecylbenzenesulphonate	Skin sensitization,	Not sensitizing
	guinea pig (OECD 406)	-
Bis(nonylphenyl)amine	Skin sensitization,	Not sensitizing
, , , ,	guinea pig	_
Distillates (petroleum), solvent-refined	Skin sensitization,	Not sensitizing
heavy paraffinic	guinea pig	

Date: 22 April 2022 SDS No. 481

Germ cell mutagenicity: Not classified, based on available data.

Substance	Test	Result
4,4'-Methylene	Ames test	negative
bis(dibutyldithiocarbamate)		
Benzenesulfonic acid, C10-16-alkyl	Ames test (OECD 471)	negative (similar
derivs., calcium salts		material)
Benzenesulfonic acid, C10-16-alkyl	In vitro test, OECD 476	negative (similar
derivs., calcium salts		material)
Benzenesulfonic acid, C10-16-alkyl	Micronucleus test,	negative
derivs., calcium salts	mouse, oral	
Calcium dodecylbenzenesulphonate	Ames test (QSAR)	negative
Sulfonic acids, petroleum, calcium salts	Ames test (OECD 471)	negative (similar
		material)
Sulfonic acids, petroleum, calcium salts	In vitro test, OECD 476	negative (similar
		material)
Benzenesulfonic acid, mono-C16-24-	Ames test (OECD 471)	negative
alkyl derivs., calcium salts		
Benzenesulfonic acid, mono-C16-24-	In vitro test, OECD 476	negative
alkyl derivs., calcium salts		
Distillates (petroleum), solvent-refined	bacteria, OECD 471	negative
heavy paraffinic		

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:

Not classified, based on available data. 4,4'-Methylene bis(dibutyldithiocarbamate), Calcium carbonate: in animal studies, did not interfere with reproduction.

Substance	Test	Result
Benzenesulfonic acid, C10-16-alkyl	415, rat, male/female,	NOAEL >= 500
derivs., calcium salts	oral, 28 days	mg/kg (similar
		material)
Calcium dodecylbenzenesulphonate	rat, male/female, oral, 20	maternal NOAEL:
	days	300 mg/kg
		developmental
		NOAEL: 300 mg/kg

STOT - single exposure:

Not classified due to lack of data. Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts: based on available data, the classification criteria are not met.

STOT – repeated exposure:

Not classified, based on available data. 4,4'-Methylene bis(dibutyldithiocarbamate), Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts: based on available data, the classification criteria are not met.

Substance	Test	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	28-day oral subchronic study (OECD 407) rat, male/female	NOAEL: 500 mg/kg (similar material)
Calcium dodecylbenzenesulphonate	180-day oral subchronic study, rat, male/female	LOAEL: 115 mg/kg
Calcium dodecylbenzenesulphonate	rat, male/female, 30 days	LOAEL: 250 mg/kg

Aspiration hazard:

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

11.2. Information on other hazards

None known

Date: 22 April 2022 SDS No. 481

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

4,4'-Methylene bis(dibutyldithiocarbamate): chronic NOEC (Daphnia magna) 21 days > 0.247 mg/l. Calcium dodecylbenzenesulphonate: 96 h LC50 (fish) = 22 mg/l (OECD 203, read-across). Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: 96 h LC50 (fish) > 71 mg/l (OECD 203). Sulfonic acids, petroleum, calcium salts: 96 h LC50 (fish) > 10,000 mg/l. Oil: practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/ErC50 > 100 mg/l.) Bis(nonylphenyl)amine: 96 h LC50 (fish) < 1000 mg/l.

12.2. Persistence and degradability

Oil: not readily biodegradable. 4,4'-Methylene bis(dibutyldithiocarbamate): not readily biodegradable (OECD 301B, 28 days: 21%). Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts: not readily biodegradable (read-across). Calcium dodecylbenzenesulphonate: readily biodegradable (73%, 28 days). Sulfonic acids, petroleum, calcium salts: not readily biodegradable (8.6%, 28 days).

12.3. Bioaccumulative potential

Oil: not expected to bioaccumulate. 4,4'-Methylene bis(dibutyldithiocarbamate): log Kow = 6.73, estimated. Calcium dodecylbenzenesulphonate: BCF = 104 (fish, 21 days); log Kow 3.9 – 6; has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

12.4. Mobility in soil

Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Oil: expected to exhibit low mobility in soil.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

None known

12.7. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Incinerate absorbed material with a properly licensed 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: NOT APPLICABLE TDG: NOT APPLICABLE US DOT: NOT APPLICABLE

14.2. UN proper shipping name

ADG/ADR/RID/ADN/IMDG/ICAO:

TDG:

NON-HAZARDOUS, NON REGULATED

NON-HAZARDOUS, NON REGULATED

NON-HAZARDOUS, NON REGULATED

NON-HAZARDOUS, NON REGULATED

14.3. Transport hazard class(es)

ADG/ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE TDG: NOT APPLICABLE US DOT: NOT APPLICABLE

14.4. Packing group

ADG/ADR/RID/ADN/IMDG/ICAO: NOT APPLICABLE TDG: NOT APPLICABLE US DOT: NOT APPLICABLE

14.5. Environmental hazards

NOT APPLICABLE

14.6. Special precautions for user

NOT APPLICABLE

14.7. Maritime transport in bulk according to IMO instruments

NOT APPLICABLE

Date: 22 April 2022 SDS No. 481

14.8. Other information

NOT APPLICABLE

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: None 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:

None None

Other national regulations: None 15.2. Chemical safety assessment

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

SECTION 16: OTHER INFORMATION

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.

Date: 22 April 2022 SDS No. 481

Key literature references Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)

and sources for data: 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

 Not applicable
 Not applicable

Relevant H-statements: H302: Harmful if swallowed.

H315: Causes skin irritation.

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

H413: May cause long lasting harmful effects to aquatic life.

Hazard pictogram names: Not applicable

Further information: None

Date of last revision: 22 April 2022

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.