

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015) Issue date: 10-31-2021 Revision date: 04-11-2024 Version: 2.1

SECTION 1 Identification

1.1. GHS Product identifier Product form : Mixture Product name : HG scale away concentrate Type of product : Detergent Product code : 100 ART Product group : Trade product 1.2. Other means of identification No additional information available 1.3. Recommended use of the chemical and restrictions on use Intended for general public Recommended use : Cleaning agent Restrictions on use : All other uses not recommended above 1.4. Supplier's details Manufacturer Distributor HG International B.V. Toolway Industries Ltd. P.J. Oudweg 41 1-280 Hunter's Valley Road Almere, 1314 CJ Woodbridge, On L4H 3V9 The Netherlands Canada T +31 (0)36 54 94 700 safety@hg.eu - www.hg.eu 1.5. Emergency phone number

Country/Area	Organization/Company	Address	Emergency number	Comment
Canada	CANUTEC		1-888-CANUTEC (226- 8832) (North American) 1-613-996-6666 (International use)	Toll Free (800) 255 3924 (24h)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Acute toxicity (oral), Category 4	H302	Harmful if swallowed
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
Full text of H statements : see section 16		

2.2. GHS label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA)

Signal word (GHS CA)



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Hazard statements (GHS CA)	: H227 - Combustible liquid H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS CA)	 H314 - Causes severe skin burns and eye damage P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read carefully and follow all instructions. P260 - Do not breathe vapors, mist, spray. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear eye protection, protective gloves, protective clothing. 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 . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 - In case of fire: Use extinguishing powder, carbon dioxide (CO2), foam, sand to extinguish. P310 - Immediately call a POISON CENTER, a doctor. P363 - Wash contaminated clothing before reuse. P403 - Store in a well-ventilated place. P405 - Store locked up. P501 - Dispose of hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation to hazardous or special waste collection point, in

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Phosphoric acid	phosphoric acid %, orthophosphoric acid %	CAS-No.: 7664-38-2	≥ 15 – < 25	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
propan-2-ol, isopropyl alcohol, isopropanol	propan-2-ol; isopropyl alcohol; isopropanol alcohols	CAS-No.: 67-63-0	≥2-<5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Isotridecanol, ethoxylated	Fattyalcohol ethoxylates	CAS-No.: 69011-36-5	≥1-<2	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
oxalic acid	oxalic acid	CAS-No.: 144-62-7	≥ 0.1 – < 2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318

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SECTION 4 First-aid measures

4.1. Description of necessary first-aid	measures
First-aid measures after inhalation First-aid measures after skin contact	 Remove person to fresh air and keep comfortable for breathing. After contact with skin, take off immediately all contaminated clothing, and wash immediately
	with plenty of water. Do not remove clothing if it sticks to the skin. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.
4.2. Most important symptoms/effects,	, acute and delayed
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
	: Burns, Harmful if swallowed.

Other medical advice or treatment

: Treat symptomatically.

SECTION 5 Fire-fighting measures				
5.1. Suitable extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.			
5.2. Specific hazards arising from the chem	nical			
Fire hazard Explosion hazard Reactivity in case of fire Hazardous decomposition products in case of fire	 No fire hazard. Intense heat may cause container to burst. Corrosive vapors. Carbon monoxide. Carbon dioxide. Phosphorus oxides. 			
5.3. Special protective actions for fire-fighters				
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Control run-off water by containing and keeping it out of sewers and watercourses.			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
Precautionary measures fire	: Runoff from fire control or dilution water may cause pollution.			

SECTION 6 Accidental release measures			
6.1. Personal precautions, protective e	quipment and emergency procedures		
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.		
Environmental precautions	: Avoid release to the environment.		

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6.2. Methods and materials for containment and cleaning up		
For containment	: Stop leak if safe to do so. Do not touch or walk on the spilled product. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.	
Methods for cleaning up Other information	Take up liquid spill into absorbent material.Dispose of materials or solid residues at an authorized site.	

For further information refer to section 8: "Exposure controls/personal protection", For disposal of contaminated materials refer to section 13 : "Disposal considerations", For further information refer to section 13

SECTION 7 Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe mist, vapors. Wear personal protective equipment.
Hygiene measures	: Remove contaminated clothes. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store in dry, cool, well-ventilated area. Store locked up. Protect from freezing.
Incompatible materials	: Keep away from (strong) bases.
Heat-ignition	: Keep away from heat and direct sunlight. No flames. Eliminate all sources of ignition.
Storage temperature	: > 0 - < 30 °C
Special rules on packaging	: Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage.
Packaging materials	: Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid (7664-38-2)		
Canada (Alberta) - Occupational Exposure Limits		
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.	
Regulatory reference	Alberta Regulation 191/2021	
Canada (Quebec) - Occupational Exposure Limits		
Local name	Phosphoric acid	
VECD (OEL STEV)	3 mg/m ³	
VEMP (OEL TWAEV)	1 mg/m ³	
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety	

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Phosphoric acid (7664-38-2)		
Canada (British Columbia) - Occupational Exposure Limits		
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)	
Canada (Manitoba) - Occupational Exposure Limits	·	
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Notations and remarks	TLV® Basis: URT, eye, & skin irr	
Regulatory reference	ACGIH 2024	
Canada (New Brunswick) - Occupational Exposure	Limits	
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Notations and remarks	URT, eye, & skin irr	
Canada (Newfoundland and Labrador) - Occupation	al Exposure Limits	
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Notations and remarks	TLV® Basis: URT, eye, & skin irr	
Regulatory reference	ACGIH 2024	
Canada (Nova Scotia) - Occupational Exposure Lim	its	
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Notations and remarks	TLV® Basis: URT, eye, & skin irr	
Regulatory reference	ACGIH 2024	
Canada (Nunavut) - Occupational Exposure Limits		
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)	
Canada (Northwest Territories) - Occupational Expo	psure Limits	
Local name	Phosphoric acid	
OEL TWA	1 mg/m³	
OEL STEL	3 mg/m ³	

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Phosphoric acid (7664-38-2)		
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)	
Canada (Ontario) - Occupational Exposure Limits		
Local name	Phosphoric acid	
OEL TWAEV	1 mg/m ³	
	3 mg/m ³	
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833	
Canada (Prince Edward Island) - Occupational Exposure Limits		
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Notations and remarks	TLV® Basis: URT, eye, & skin irr	
Regulatory reference	ACGIH 2024	
Canada (Saskatchewan) - Occupational Exposure L	imits	
Local name	Phosphoric acid	
OEL TWA	1 mg/m ³	
OEL STEL	3 mg/m ³	
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10	
oxalic acid (144-62-7)		
Canada (Alberta) - Occupational Exposure Limits		
Local name	Oxalic acid	
OEL TWA	1 mg/m ³	
OEL STEL	2 mg/m ³	
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.	
Regulatory reference	Alberta Regulation 191/2021	
Canada (Quebec) - Occupational Exposure Limits		
Local name	Oxalic acid	
VECD (OEL STEV)	2 mg/m³	
VEMP (OEL TWAEV)	1 mg/m ³	
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety	
Canada (British Columbia) - Occupational Exposure Limits		
Local name	Oxalic acid, anhydrous	
OEL TWA	1 mg/m ³	
OEL STEL	2 mg/m ³	
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)	
Canada (Manitoba) - Occupational Exposure Limits		
Local name	Oxalic acid, anhydrous	

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oxalic acid (144-62-7)		
OEL TWA	1 mg/m ³	
OEL STEL	2 mg/m³	
Notations and remarks	TLV® Basis: URT, eye, & skin irr	
Regulatory reference	ACGIH 2024	
Canada (New Brunswick) - Occupational Exposure	Limits	
Local name	Oxalic acid	
OEL TWA	1 mg/m³	
OEL STEL	2 mg/m ³	
Notations and remarks	URT, eye, & skin irr	
Canada (Newfoundland and Labrador) - Occupation	nal Exposure Limits	
Local name	Oxalic acid, anhydrous	
OEL TWA	1 mg/m³	
OEL STEL	2 mg/m³	
Notations and remarks	TLV® Basis: URT, eye, & skin irr	
Regulatory reference	ACGIH 2024	
Canada (Nova Scotia) - Occupational Exposure Lim	its	
Local name	Oxalic acid, anhydrous	
OEL TWA	1 mg/m³	
OEL STEL	2 mg/m ³	
Notations and remarks	TLV® Basis: URT, eye, & skin irr	
Regulatory reference	ACGIH 2024	
Canada (Nunavut) - Occupational Exposure Limits		
Local name	Oxalic acid	
OEL TWA	1 mg/m³	
OEL STEL	2 mg/m³	
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)	
Canada (Northwest Territories) - Occupational Exposure Limits		
Local name	Oxalic acid	
OEL TWA	1 mg/m³	
OEL STEL	2 mg/m³	
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)	
Canada (Ontario) - Occupational Exposure Limits		
Local name	Oxalic acid, anhydrous	
OEL TWAEV	1 mg/m ³	
	2 mg/m ³	
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833	

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Canada (Prince Edward Island) - Occupational Exposure Limits Local name Oxalic acid, anhyo OEL TWA 1 mg/m³ OEL STEL 2 mg/m³	drous	
OEL TWA 1 mg/m ³	drous	
OEL STEL 2 ma/m ³		
Notations and remarks TLV® Basis: URT	, eye, & skin irr	
Regulatory reference ACGIH 2024		
Canada (Saskatchewan) - Occupational Exposure Limits		
Local name Oxalic acid		
OEL TWA 1 mg/m ³		
OEL STEL 2 mg/m ³		
Regulatory reference The Occupational	Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Canada (Alberta) - Occupational Exposure Limits		
Local name 2-Propanol (Isopr	opyl alcohol, isopropanol)	
OEL TWA 492 mg/m ³		
200 ppm		
OEL STEL 984 mg/m ³		
400 ppm		
Regulatory reference Alberta Regulation	n 191/2021	
Canada (Quebec) - Occupational Exposure Limits		
Local name Isopropyl alcohol		
VECD (OEL STEV) 400 ppm		
VEMP (OEL TWAEV) 200 ppm		
Regulatory reference S-2.1, r. 13 - Regu	ulation respecting occupational health and safety	
Canada (British Columbia) - Occupational Exposure Limits		
Local name Isopropanol (Isopr	ropyl alcohol, 2-Propanol)	
OEL TWA 200 ppm		
OEL STEL 400 ppm		
Regulatory reference OHS Guidelines F	Part 5: Chemical Agents and Biological Agents (WorkSafe BC)	
Canada (Manitoba) - Occupational Exposure Limits		
Local name 2-Propanol		
OEL TWA 200 ppm		
OEL STEL 400 ppm		
Notations and remarks TLV® Basis: Eye Carcinogen); BEI	& URT irr; CNS impair. Notations: A4 (Not classifiable as a Human	
Regulatory reference ACGIH 2024		

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propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Canada (New Brunswick) - Occupational Exposure Limits		
Local name	2-Propanol	
OEL TWA	200 ppm	
OEL STEL	400 ppm	
Notations and remarks	Eye & URT irr; CNS impair	
Canada (Newfoundland and Labrador) - Occupation	nal Exposure Limits	
Local name	2-Propanol	
OEL TWA	200 ppm	
OEL STEL	400 ppm	
Notations and remarks	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI	
Regulatory reference	ACGIH 2024	
Canada (Nova Scotia) - Occupational Exposure Lim	its	
Local name	2-Propanol	
OEL TWA	200 ppm	
OEL STEL	400 ppm	
Notations and remarks	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI	
Regulatory reference	ACGIH 2024	
Canada (Nunavut) - Occupational Exposure Limits		
Local name	Isopropyl alcohol	
OEL TWA	200 ppm	
OEL STEL	400 ppm	
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)	
Canada (Northwest Territories) - Occupational Expo	osure Limits	
Local name	Isopropyl alcohol	
OEL TWA	200 ppm	
OEL STEL	400 ppm	
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)	
Canada (Ontario) - Occupational Exposure Limits		
Local name	2-Propanol	
OEL TWAEV	200 ppm	
	400 ppm	
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833	
Canada (Prince Edward Island) - Occupational Expo	osure Limits	
Local name	2-Propanol	
OEL TWA	200 ppm	

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propan-2-ol, isopropy	propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)				
OEL STEL		400 ppm			
Notations and remarks		TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI			
Regulatory reference		ACGIH 2024			
Canada (Saskatchewan)	- Occupational Exposure I	imits			
Local name		Isopropyl alcohol			
OEL TWA		200 ppm			
OEL STEL		400 ppm			
Regulatory reference		The Occupational Health and S	Safety Regulation	ns, 2020. Chapt	er S-15.1 Reg 10
8.2. Appropriate engin	eering controls				
Appropriate engineering co	ntrols :	Emergency eye wash fountains of any potential exposure. Ensu			vailable in the immediate vicinity tation.
Environmental exposure co	ntrols :	Avoid release to the environment	nt.		
8.3. Individual protecti	on measures, such as p	personal protective equipm	ent (PPE)		
Personal protective equipment: Safety glasses. Gloves. Protective clothing.					
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (m	n)	Penetration
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes) 0.35			
Disposable gloves	butyl rubber	6 (> 480 minutes) 0.5			
Eye protection:					
Safety glasses					
Туре		Field of application		Characteristic	S
Safety glasses with side sh	nields	Normal use conditions			
Chemical goggles or face	shield	Droplet			
Skin and body protection:					
Long sleeved protective clothing. Chemical resistant safety shoes					
Туре					
Chemical resistant safety shoes					
Use chemically protective clothing					
Respiratory protection:					
No respiratory protection needed under normal use conditions					

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Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Color	: Colorless
Odor	: Fresh
Odor threshold	: No data available
рН	: 0.3
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.14
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Keep away from (strong) bases.
Incompatible materials	 Attacks many metals releasing highly flammable gas (hydrogen) which generates fire or explosion hazards. Slightly reactive or incompatible with the following materials: Alkalines. Strong bases. Oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

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Acute toxicly (damai) : Not classified (Based on available data, the classification criteria are not met) HG scale away concentrate I1314.682 mg/kg body weight Phosphoric acid (7664-38-2) ID50 oral rat LD50 oral rat 1.25 g/g LD50 drain rabbi 2740 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 375 mg/kg DS0 oral rat 375 mg/kg body weight CAUE toxicly (based and arbit) 2740 mg/kg body weight ATE CA (oral) 375 mg/kg body weight LD50 oral rat > 2000 mg/kg body weight LD50 oral rat S40 mg/kg Source: ECHA LD50 oral rat S40 mg/	SECTION 11 Toxicological information	
Acute toxicly (damai) : Not classified (Based on available data, the classification criteria are not met) HG scale away concentrate I1314.682 mg/kg body weight Phosphoric acid (7664-38-2) ID50 oral rat LD50 oral rat 1.25 g/g LD50 drain rabbi 2740 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 375 mg/kg DS0 oral rat 375 mg/kg body weight CAUE toxicly (based and arbit) 2740 mg/kg body weight ATE CA (oral) 375 mg/kg body weight LD50 oral rat > 2000 mg/kg body weight LD50 oral rat S40 mg/kg Source: ECHA LD50 oral rat S40 mg/	11.1. Likely routes of exposure	
ATE CA (oral) 1314.682 mg/kg body weight Phosphoric acid (7664-38-2) LD50 oral rat 1.25 g/kg LD60 darmal rabbit 2740 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 301 mg/kg body weight oxalic acid (144-62-7) LD50 oral rat 375 mg/kg D250 oral rat 375 mg/kg body weight ATE CA (oral) 375 mg/kg body weight ATE CA (oral) 375 mg/kg body weight LD50 darmal rabbit 2000 mg/kg body weight ATE CA (oral) 375 mg/kg body weight LD50 darmal rabbit 2000 mg/kg body weight LD50 darmal rabbit 2000 mg/kg body weight LD50 darmal rabbit > 2000 mg/kg body weight LD50 darmal rabbit > 2000 mg/kg body weight LD50 darmal rabbit > 2000 mg/kg body weight LD50 darmal rabbit \$ 5960 mg/kg body weight LD50 darmal rabbit \$ 5960 mg/kg Source: ECHA LD50 darmal rabbit 12800 mg/kg Source: ECHA LD50 darmal rabbit 12800 mg/kg Source: ECHA LD50 darmal rabbit <		Not classified (Based on available data, the classification criteria are not met)
Phosphoric acid (7664-38-2) LD50 oral rat 1.25 g/kg LD50 oral rat 301 mg/kg LD50 dernal rabbit 2740 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 375 mg/kg LD50 oral rat 375 mg/kg LD50 oral rat 375 mg/kg body weight ATE CA (oral) 1100 mg/kg body weight ID50 oral rat 20000 mg/kg body weight LD50 dermal rabbit 20000 mg/kg body weight ID50 dermal rabbit 2000 mg/kg body weight LD50 oral 2000 mg/kg body weight LD50 oral rat 560 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicky) LD50 oral rat 5840 mg/kg Source: ECHA LD50 oral rat 5840 mg/kg body weight LD50 oral rat 1280 mg/kg body weight LD50 oral 4396 mg/kg body weigh	HG scale away concentrate	
LD50 oral rat 1.25 gkg LD50 oral 301 mg/kg LD50 dermal rabbit 2740 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 2740 mg/kg body weight ATE CA (oral) 2740 mg/kg body weight Oxalic acid (144-62-7) LD50 oral rat LD50 dermal rabbit 20000 mg/kg body weight Animal: rabbit ATE CA (oral) 375 mg/kg LD50 dermal rabbit 20000 mg/kg body weight ATE CA (oral) 376 mg/kg body weight ATE CA (oral) 376 mg/kg body weight LD50 dermal rabbit 20000 mg/kg body weight LD50 dermal rabbit 20000 mg/kg body weight LD50 dermal rabbit 20000 mg/kg body weight LD50 dermal rabbit 500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) LD50 dermal rabbit 5000 mg/kg body weight Animal: rabbit, Animal sex: male, Remarks on results: other: ATE CA (oral) 500 mg/kg body weight LD50 oral rat 5840 mg/kg Source: ECHA LD50 oral rat 5840 mg/kg body weight LD50 oral rat 12800 mg/kg body weight ATE CA (oral) 4396 mg/kg body weight	ATE CA (oral)	1314.692 mg/kg body weight
LD50 oral 301 mg/kg LD50 ofermal rabbit 2740 mg/kg Source: ECHA ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 301 mg/kg body weight ATE CA (oral) 2740 mg/kg body weight oxalic acid (144-62-7) LD50 oral rat LD50 oral rat 375 mg/kg LD50 dermal rabbit 20000 mg/kg body weight Animal: rabbit ATE CA (oral) 375 mg/kg LD50 dermal rabbit 20000 mg/kg body weight TE CA (oral) 375 mg/kg body weight ATE CA (oral) 375 mg/kg body weight LD50 oral + 2000 mg/kg body weight LD50 oral > 2000 mg/kg body weight LD50 oral > 2000 mg/kg body weight LD50 oral rat > 2000 mg/kg body weight Propan-2-ol, isopropyl alcohol, isopropanol (67-63-0) LD50 oral rat LD50 oral rat 5840 mg/kg Source: ECHA LD50 oral rat 2840 mg/kg Source: ECHA LD50 oral rat 2800 mg/kg body weight LD50 oral rat 4396 mg/kg body weight LD50 oral rat 5840 mg/kg Source: ECHA LD50 oral rat 12800 mg/kg Source: ECHA LD50 oral rat	Phosphoric acid (7664-38-2)	
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LD50 oral rat5840 mg/kg Source: ECHALD50 oral4396 mg/kg body weightLD50 dermal rabbit12800 mg/kg Source: ECHALC50 Inhalation - Rat (Dust/Mist)46600 mg/lATE CA (oral)4396 mg/kg body weightATE CA (loermal)12800 mg/kg body weightATE CA (dust,mist)46600 mg/lSkin corrosion/irritation: Causes severe skin burns. pH: 0.3Serious eye damage/irritation: Causes serious eye damage. pH: 0.3Respiratory or skin sensitization: Not classified (Based on available data, the classification criteria are not met) CarcinogenicityReproductive toxicity: Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met)	ATE CA (oral)	500 mg/kg body weight
LD50 oral4396 mg/kg body weightLD50 dermal rabbit12800 mg/kg Source: ECHALC50 Inhalation - Rat (Dust/Mist)46600 mg/lATE CA (oral)4396 mg/kg body weightATE CA (oral)12800 mg/kg body weightATE CA (dust,mist)12800 mg/kg body weightATE CA (dust,mist)46600 mg/l/4hSkin corrosion/irritation: Causes severe skin burns. pH: 0.3Serious eye damage/irritation: Causes serious eye damage. pH: 0.3Respiratory or skin sensitization: Not classified (Based on available data, the classification criteria are not met)Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)	propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)
LD50 dermal rabbit12800 mg/kg Source: ECHALC50 Inhalation - Rat (Dust/Mist)46600 mg/lATE CA (oral)4396 mg/kg body weightATE CA (oral)12800 mg/kg body weightATE CA (Dermal)12800 mg/kg body weightATE CA (dust,mist)46600 mg/l/4hSkin corrosion/irritation: Causes severe skin burns. pH: 0.3Serious eye damage/irritation: Causes serious eye damage. pH: 0.3Respiratory or skin sensitization: Not classified (Based on available data, the classification criteria are not met)Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)	LD50 oral rat	5840 mg/kg Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)46600 mg/lATE CA (oral)4396 mg/kg body weightATE CA (Dermal)12800 mg/kg body weightATE CA (dust,mist)46600 mg/l/4hSkin corrosion/irritation: Causes severe skin burns. pH: 0.3Serious eye damage/irritation: Causes serious eye damage. pH: 0.3Respiratory or skin sensitization: Not classified (Based on available data, the classification criteria are not met)Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)	LD50 oral	4396 mg/kg body weight
ATE CA (oral)4396 mg/kg body weightATE CA (Dermal)12800 mg/kg body weightATE CA (dust,mist)46600 mg/l/4hSkin corrosion/irritation: Causes severe skin burns. pH: 0.3Serious eye damage/irritation: Causes serious eye damage. pH: 0.3Respiratory or skin sensitization: Not classified (Based on available data, the classification criteria are not met)Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)	LD50 dermal rabbit	12800 mg/kg Source: ECHA
ATE CA (Dermal)12800 mg/kg body weightATE CA (dust,mist)46600 mg/l/4hSkin corrosion/irritation: Causes severe skin burns. pH: 0.3Serious eye damage/irritation: Causes serious eye damage. pH: 0.3Respiratory or skin sensitization: Not classified (Based on available data, the classification criteria are not met)Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)	LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l
ATE CA (dust,mist) 46600 mg/l/4h Skin corrosion/irritation : Causes severe skin burns. pH: 0.3 Serious eye damage/irritation : Causes serious eye damage. pH: 0.3 Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)	ATE CA (oral)	4396 mg/kg body weight
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pH: 0.3Serious eye damage/irritation:Causes serious eye damage. pH: 0.3Respiratory or skin sensitization:Not classified (Based on available data, the classification criteria are not met)Germ cell mutagenicity:Not classified (Based on available data, the classification criteria are not met)Carcinogenicity:Reproductive toxicity:Not classified (Based on available data, the classification criteria are not met)	ATE CA (dust,mist)	46600 mg/l/4h
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Germ cell mutagenicityNot classified (Based on available data, the classification criteria are not met)CarcinogenicityNot classified (Based on available data, the classification criteria are not met)Reproductive toxicityNot classified (Based on available data, the classification criteria are not met)	Serious eye damage/irritation :	Causes serious eye damage.
Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)		
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)		
		Not classified (Based on available data, the classification criteria are not met)

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure :	Not classified (Based on available data, the classification criteria are not met)	
Isotridecanol, ethoxylated (69011-36-5)		
NOAEL (oral,rat,90 days)	≥ 500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Viscosity, kinematic	2.658 mm ² /s	
Symptoms/effects after inhalation :	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.	
Symptoms/effects after skin contact :	Burns.	
Symptoms/effects after eye contact	Serious damage to eyes.	
Symptoms/effects after ingestion :	Burns. Harmful if swallowed.	

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term	: Not classified (Based on available data, the classification criteria are not met).
(acute)	
Hazardous to the aquatic environment, long-term	: Not classified (Based on available data, the classification criteria are not met).
(chronic)	

Phosphoric acid (7664-38-2)		
LC50 - Fish [1]	75.1 mg/l Source: ECHA	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
oxalic acid (144-62-7)		
LC50 - Fish [1]	160 mg/l	
EC50 - Crustacea [1]	162.2 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	19.83 – 21.35 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
Isotridecanol, ethoxylated (69011-36-5)		
LC50 - Fish [1]	> 1 mg/l	
EC50 - Crustacea [1]	1.5 mg/l Test organisms (species): Daphnia magna	
EC50 - Other aquatic organisms [1]	> 1 mg/l waterflea	
EC50 96h - Algae [1]	11.5 mg/l Source: EPISUITE v4.1	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas	

Safety Data Sheet

12.2. Persistence and degradability		
HG scale away concentrate		
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.	
Phosphoric acid (7664-38-2)		
Persistence and degradability	Rapidly degradable	
oxalic acid (144-62-7)		
Persistence and degradability	Rapidly degradable	
Biochemical oxygen demand (BOD)	0.16 g O ₂ /g substance	
Chemical oxygen demand (COD)	0.18 g O ₂ /g substance	
Biodegradation	40 %	
Isotridecanol, ethoxylated (69011-36-5)		
Persistence and degradability	Rapidly degradable	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
Phosphoric acid (7664-38-2)		
Partition coefficient n-octanol/water (Log Pow)	-0.77	
oxalic acid (144-62-7)		
Partition coefficient n-octanol/water (Log Pow)	-0.81	
propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05	
12.4. Mobility in soil		
Isotridecanol, ethoxylated (69011-36-5)		
Mobility in soil	111.3 Source: EPISUITE v4.1	
12.5. Other adverse effects		
Ozone :	Not classified (Based on available data, the classification criteria are not met)	
Fluorinated greenhouse gases :	No	

SECTION 13 Disposal considerations	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	 Dispose of in accordance with relevant local regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations. Do not flush down sewers.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Do not pierce or burn, even after use. Do not dispose of the packaging without first carrying out the necessary cleaning.

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Additional information Ecological waste information

- : Do not re-use empty containers.
- : Avoid release to the environment.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA			
TDG	DOT	IMDG	ΙΑΤΑ
14.1. UN Number			
Not regulated for transport			
14.2. UN Proper Shipping Name)		
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group, if applicable			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

TDG

Not regulated

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78° and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)

oxalic acid (144-62-7)

Listed on the Canadian DSL (Domestic Substances List)

Isotridecanol, ethoxylated (69011-36-5)

Listed on the Canadian DSL (Domestic Substances List)

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propan-2-ol, isoprop	yl alcohol, isopropanol	(67-63-0)
	<i></i>	

Listed on the Canadian DSL (Domestic Substances List)

Phosphoric acid (7664-38-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

oxalic acid (144-62-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

Isotridecanol, ethoxylated (69011-36-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16 Other Information

Issue date	: 10-31-2021
Revision date	: 04-11-2024

Indication of changes		
Section	Changed item	Comments
	Precautionary statements (GHS CA)	Modified
	Emergency Response Guide (ERG) Number	Added
	UN-No. (DOT)	Added
	UN-No. (TDG)	Modified
	DOT NA No	Modified
	DOT Vessel Stowage Other	Modified
	DOT Special Provisions (49 CFR 172.102)	Modified
	Proper Shipping Name (DOT)	Modified
	Proper Shipping Name (TDG)	Modified
	ATE CA (oral)	Added
	Hazard pictograms (GHS CA)	Modified
	Hazard statements (GHS CA)	Modified
	Revision date	Added
	Flammability	Modified
	IBC packing instructions (IMDG)	Added
	Segregation (IMDG)	Added

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Indication of changes		
Section	Changed item	Comments
	Proper Shipping Name (IATA)	Modified
	Proper Shipping Name (IMDG)	Modified
1.2	Restrictions on use	Added
2.1	Classification (GHS CA)	Modified
3	Composition/Information on ingredients	Modified
4.1	First-aid measures after ingestion	Modified
4.1	First-aid measures after eye contact	Modified
4.1	First-aid measures after inhalation	Modified
4.1	First-aid measures general	Modified
4.1	First-aid measures after skin contact	Modified
4.2	Symptoms/effects after inhalation	Added
5.1	Suitable extinguishing media	Modified
5.2	Reactivity in case of fire	Added
5.2	Explosion hazard	Added
5.2	Hazardous decomposition products in case of fire	Modified
5.2	Fire hazard	Modified
5.3	Firefighting instructions	Added
5.3	Protection during firefighting	Modified
6	For containment	Added
6	Methods for cleaning up	Modified
6.1	General measures	Added
7.1	Precautions for safe handling	Modified
7.1	Additional hazards when processed	Added
7.1	Hygiene measures	Modified
7.2	Packaging materials	Added
7.2	Storage temperature	Added
7.2	Technical measures	Added
7.2	Storage conditions	Modified
7.2	Incompatible products	Added
7.2	Incompatible materials	Added
7.2	Storage area	Added
8.2	Eye protection	Modified
8.2	Appropriate engineering controls	Modified
8.2	Personal protective equipment	Modified
9.1	Melting point	Modified

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according to the Hazardous Products Regulation (WHMIS 2015)

Indication of changes		
Section	Changed item	Comments
9.1	Flash point	Modified
10	Conditions to avoid	Modified
10	Incompatible materials	Modified
13.1	Product/Packaging disposal recommendations	Added
13.1	Sewage disposal recommendations	Added
13.1	Additional information	Added
13.1	Regional waste regulation	Added
13.1	Waste treatment methods	Modified
14.1	UN-No. (IATA)	Modified
14.1	UN-No. (IMDG)	Modified
16	Training advice	Added
16	Other information	Modified

Training advice

: Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Other information

Normal use of this product shall imply use in accordance with the instructions on the packaging. DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of hazard classes and H-statements:	
H225	Highly flammable liquid and vapor
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Abbreviations 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

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according to the Hazardous Products Regulation (WHMIS 2015)

Abbreviation	s and acronyms:
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.