



Process2Clean[®] 4 (Dilutions < 10%)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 10/21/2020

Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Process2Clean[®] 4 (Dilutions < 10%)
Product code : SDS VEL-153

1.2. Recommended use and restrictions on use

Use of the substance/mixture : General cleaning detergent concentrate
Product for industrial use only

1.3. Supplier

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
E-mail: vai@sterile.com

In Canada distributed by:
Canada Clean Room (CCR)
20 Cope Dr.
Kanata, ON K2M 2V8, Canada
Telephone: (888)595-8070

1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061
1-866-928-0789 (toll free)
Canada: 1-800-579-7421 (toll free)
Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation
Specific target organ toxicity (repeated exposure) Category 2 H373 May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

H319 - Causes serious eye irritation
H373 - May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation)

Precautionary statements (GHS US) :

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective clothing, protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 - Get medical advice/attention if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container to an authorized waste collection point.

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Tetrasodium ethylene diamine tetraacetate	(CAS-No.) 64-02-8	< 1.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 STOT RE 2, H373
(2-Methoxymethylethoxy)propanol	(CAS-No.) 34590-94-8	< 1	Flam. Liq. 4, H227
Glycolic acid	(CAS-No.) 79-14-1	< 1	Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop obtain medical attention.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Do not give an unconscious person anything to drink. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Causes serious eye irritation. May cause damage to organs (respiratory tract) through prolonged or repeated exposure (inhalation).

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Dry chemical. Foam. Carbon dioxide. Water fog.
- Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

- Fire hazard : Not flammable.
- Hazardous decomposition products in case of fire : Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide. Nitrogen dioxide. Sodium oxides.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate area. Avoid contact with skin, eyes and clothing. Do not breathe vapors. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use personal protective equipment as required. See Section 8.

Emergency procedures : Ventilate area. Avoid contact with skin, eyes and clothing. Do not breathe vapors.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk. Dam up the liquid spill.

Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Store away from other materials. Wash spill area with soapy water.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Do not breathe vapors. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Protect from freezing. Keep out of direct sunlight.

Incompatible materials : Strong oxidizing agent. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(2-Methoxymethylethoxy)propanol (34590-94-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)propanol
ACGIH TWA (ppm)	100 ppm
ACGIH STEL (ppm)	150 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: Skin
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	
Local name	Dipropylene glycol methyl ether
OSHA PEL (TWA) (mg/m ³)	600 mg/m ³
OSHA PEL (TWA) (ppm)	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide good ventilation in process area to prevent formation of vapor. Ensure exposure is below occupational exposure limits (where available). Local exhaust ventilation (LEV) may be required to control inhalation exposure. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Long-sleeved protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Yellow.
Color	: Yellow
Odor	: Slight Chemical
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: 32 °F (0 °C)
Boiling point	: 212 °F (100 °C)
Flash point	: Not flammable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Miscible
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive.
Oxidizing properties	: Not oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

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10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

High temperature. Freezing.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon dioxide. Carbon monoxide. Nitrogen oxides. Sodium oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
LD50 oral, rat	1780 – 2000 mg/kg
LC50 inhalation, rat (mg/l)	> 30 mg/l - 6 Hours (OECD 412 method)

Glycolic acid (79-14-1)	
LD50 oral, rat	2040 mg/kg (EPA OPP 81-1)
LC50 inhalation, rat (mg/l)	3.6 mg/l - 4 Hours (OECD 403 method)

(2-Methoxymethylethoxy)propanol (34590-94-8)	
LD50 oral, rat	> 5000 mg/kg body weight (OECD 401 method)
LD50 dermal, rabbit	9510 mg/kg body weight (OECD 402 method)
Additional information	LC0, rat, Inhalation: > 275 ppm (7 Hours, vapors, (OECD 403 method))

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation).

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
STOT-repeated exposure	May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation).

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Causes serious eye irritation. May cause damage to organs (respiratory tract) through prolonged or repeated exposure (inhalation).

SECTION 12: Ecological information

12.1. Toxicity

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
LC50 fish	121 – 1592 mg/l - 96 Hours (Lepomis macrochirus)
EC50 Daphnia	140 mg/l - 48 Hours (Daphnia magna) (DIN 38412; 11) (Read-across, CAS 6381-92-6)

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Tetrasodium ethylene diamine tetraacetate (64-02-8)	
EC50 Daphnia 2	625 mg/l - 24 Hours (Daphnia magna) (DIN 38412; 11)
NOEC chronic fish	25.7 mg/l - 35 days (Danio rerio)(OECD 210 method) (Read-across, CAS 62-33-9)
NOEC chronic crustacea	25 mg/l - 21 days (Daphnia magna) (reproduction) (Read-across, CAS 6381-92-6)
Glycolic acid (79-14-1)	
LC50 fish	114.8 mg/l - 96 Hours (Pimephales promelas) (EPA 72 -2)
EC50 Daphnia	99.6 mg/l - 48 Hours (Daphnia magna) (OECD 202 method)
(2-Methoxymethylethoxy)propanol (34590-94-8)	
LC50 fish	> 1000 mg/l - 96 Hours (Poecilia reticulata), (OECD 203 method)
EC50 Daphnia	1919 mg/l - 48 Hours (Daphnia magna), (OECD 202 method)
LC50 fish 2	> 10000 mg/l - 96 Hours (Pimephales promelas)
EC50 Daphnia 2	> 1000 mg/l - 48 Hours (Crangon crangon)
NOEC chronic crustacea	≥ 0.5 mg/l - 22 days (Daphnia magna, reproduction), (OECD 211 method)

12.2. Persistence and degradability

Process2Clean[®] 4 (Dilutions < 10%)	
Persistence and degradability	No data available.
Tetrasodium ethylene diamine tetraacetate (64-02-8)	
Persistence and degradability	Not readily biodegradable.
Glycolic acid (79-14-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	78 % - 11 days (OECD 301B method)
(2-Methoxymethylethoxy)propanol (34590-94-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	75 % - 10 days, (OECD 301F method)

12.3. Bioaccumulative potential

Process2Clean[®] 4 (Dilutions < 10%)	
Bioaccumulative potential	No data available.
Tetrasodium ethylene diamine tetraacetate (64-02-8)	
Bioaccumulative potential	Not expected to bioaccumulate.
Glycolic acid (79-14-1)	
Log Pow	< 0.3 (25 °C)(OECD 117 method)
Bioaccumulative potential	Not expected to bioaccumulate.
(2-Methoxymethylethoxy)propanol (34590-94-8)	
Log Pow	0.004 (25 °C), (OECD 107 method)
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4. Mobility in soil

Process2Clean[®] 4 (Dilutions < 10%)	
Ecology - soil	Miscible with water.
Tetrasodium ethylene diamine tetraacetate (64-02-8)	
Mobility in soil	Not expected to adsorb to soil
Glycolic acid (79-14-1)	
Mobility in soil	Not expected to adsorb to soil
Log Koc	< 1.4 (OECD 121 method)
(2-Methoxymethylethoxy)propanol (34590-94-8)	
Ecology - soil	Miscible with water.

12.5. Other adverse effects

Other information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Disposal methods

- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Additional information : Handle empty containers with care.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

- Other information : Not regulated.
- Special transport precautions : DO NOT TRANSPORT - This dilution of product is an on-site dilution in water by the user according to product label directions. It is not supplied nor transported in commerce at this dilution. For transport and hazards of the undiluted product concentrate before mixing, see SDS #VEL-016.

SECTION 15: Regulatory information

15.1. US Federal regulations

Process2Clean [®] 4 (Dilutions < 10%)	
SARA Section 311/312 Hazard Classes	Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure)
Tetrasodium ethylene diamine tetraacetate (64-02-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Glycolic acid (79-14-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
(2-Methoxymethylethoxy)propanol (34590-94-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
Listed on the Canadian DSL (Domestic Substances List)	
Glycolic acid (79-14-1)	
Listed on the Canadian DSL (Domestic Substances List)	
(2-Methoxymethylethoxy)propanol (34590-94-8)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Component	State or local regulations
(2-Methoxymethylethoxy)propanol(34590-94-8)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

- Data sources : US OSHA HazCom (GHS) 25 May 2012.

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Full text of H-phrases:

H227	Combustible liquid
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	CAS (Chemical Abstracts Service) number
	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	LOAEC (Lowest Observed Adverse Effect Concentration)
	OECD (Organisation for Economic Co-operation and Development)
	OSHA (Occupational Safety and Health Administration) (US)
	NOAEL (No Observed Adverse Effect Level)
	NOEC (No Observed Effect Concentration)
	TSCA (Toxic Substances Control Act) (US)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)

NFPA health hazard

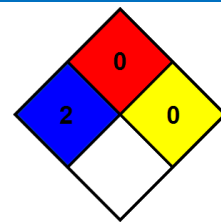
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur
* - Chronic (long-term) health effects may result from repeated overexposure

Flammability

: 0 Minimal Hazard - Materials that will not burn

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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