SECTION 1 Identification

1.1. Product identifier

Product form : Mixture

Product name : Process2Clean® 1 (Dilutions < 10%)

Product code : SDS-VEL-151

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Alkaline cleaning detergent, Product for industrial use only

1.4. Supplier's details

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: 1-(888)-595-8070

1.5. Emergency phone number

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

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements (GHS US) : P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water/…
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Potassium hydroxide	CAS-No.: 1310-58-3	< 2	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
Tetrasodium ethylene diamine tetraacetate	CAS-No.: 64-02-8	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 STOT RE 2, H373

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

SECTION 4 First aid measures

4.1. Description of necessary 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/effects, acute and delayed

Potential Adverse human health effects and symptoms : Causes serious eye irritation. Causes skin irritation.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

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. Nitrogen oxides. Potassium oxides. Sodium oxides. Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Move containers from fire area if you can do it without risk. On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray. 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.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate area. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Use personal protective equipment as required. See Section 8.

Emergency procedures : Ventilate area. Avoid contact with skin, eyes and clothing.

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

6.2. Methods and materials 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.

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. 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 incompatibilities

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

Incompatible materials : Acids. Oxidizing agents. Metals.

Specific end uses : Alkaline cleaning detergent. Product for industrial use only.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide (1310-58-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Potassium hydroxide
ACGIH® TLV® C	2 mg/m³
Remark (ACGIH)	URT, eye, & skin irr
Regulatory reference	ACGIH 2025
Canada (Alberta) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	2 mg/m³
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	Potassium hydroxide
Plafond (OEL C)	2 mg/m³
Notations and remarks	RP, EM
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	2 mg/m³
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	2 mg/m³

Potassium hydroxide (1310-58-3)	
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	2 mg/m³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	2 mg/m³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	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	Potassium hydroxide
OEL C	2 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	2 mg/m³
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	2 mg/m³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL C	2 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

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.

8.3. Individual protection measures, such as 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. Basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear.
Color	:	Colorless
Odor	:	Slight odor
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	212 °F (100 °C)
Flash point	:	Not flammable
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
Explosion limits	:	No data available
Explosive properties	:	Not explosive.
Oxidizing properties	:	Not oxidizing.
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

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

May react with some metals to give small amounts of hydrogen.

10.4. Conditions to avoid

Freezing.

10.5. Incompatible materials

Acids. Oxidizing agents. Metals.

10.6. Hazardous decomposition products

In case of fire product can release: Potassium oxides. Sodium oxides. Nitrogen oxides. Carbon dioxide. Carbon monoxide. May react with some metals to give small amounts of hydrogen.

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

Process2Clean® 1 (Dilutions < 10%)	
LD50 oral, rat	> 2000 mg/kg

Potassium hydroxide (1310-58-3)	
LD50 oral, rat	333 mg/kg (OECD 425 method)
ATE US (oral)	333 mg/kg body weight

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
LD50 oral, rat	1780 – 2000 mg/kg
ATE US (oral)	1780 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
LOAEC, Inhalation, rat	ca. 30 mg/m³ (6h)

Skin corrosion/irritation : Causes skin irritation.

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 : Not classified

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

Potential Adverse human health effects and symptoms : Causes serious eye irritation. Causes skin irritation.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : Not classified.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
LC50 fish	> 100 mg/l 96h - Oncorhynchus mykiss (OECD 203 method)
EC50 Daphnia	> 114 mg/l 48h - Daphnia Magna (OECD 202 method)
EC50 72h - Algae [1]	> 100 72h - Raphidocelis subcapitata (OECD 201 method)
NOEC chronic fish	≥ 35.1 mg/l 35d - Danio rerio (OECD 210 method)
NOEC chronic crustacea	25 mg/l 21d - Daphnia Magna (OECD 211 method)
NOEC chronic algae	79.4 mg/l 72h - Raphidocelis subcapitata (OECD 201 method)

12.2. Persistence and degradability

Process2Clean® 1 (Dilutions < 10%)	
Persistence and degradability	No data available.

Potassium hydroxide (1310-58-3)	
Persistence and degradability	Not relevant for inorganic substances.

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Process2Clean® 1 (Dilutions < 10%)	
Bioaccumulative potential	No data available.

Potassium hydroxide (1310-58-3)	
Bioaccumulative potential	Low bioaccumulation potential.

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
BCF - Fish [1]	1.8 l/kg

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
Log Pow	-13.17 (calculated value)
Bioaccumulative potential	Not expected to bioaccumulate.

12.4. Mobility in soil

Process2Clean® 1 (Dilutions < 10%)	
Ecology - soil	Miscible with water.

Potassium hydroxide (1310-58-3)	
Mobility in soil	Not expected to adsorb to soil

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
Ecology - soil	Mobile in soils.

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No

Other information : Avoid release to the environment.

SECTION 13 Disposal considerations

Waste disposal recommendations : Dispose of this product and its container in a safe manner in accordance with local/national regulations.
Additional information : Handle empty containers with care.
Ecology - waste materials : Avoid release to the environment.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

UN-No. (DOT) : Not applicable
UN-No. (TDG) : Not regulated
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not regulated
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not applicable

TDG
Transport hazard class(es) (TDG) : Not regulated

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not regulated
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : Not regulated.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

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-013

DOT

No data available

TDG

Not regulated

IMDG

No data available

IATA

No data available

SECTION 15 Regulatory information

15.1. Federal regulations

Process2Clean® 1 (Dilutions < 10%)	
SARA Section 311/312 Hazard Classes	Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Potassium hydroxide	1310-58-3	Present	Active	
Tetrasodium ethylene diamine tetraacetate	64-02-8	Present	Active	

Potassium hydroxide (1310-58-3)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1000 lb

15.2. International regulations

CANADA

Potassium hydroxide (1310-58-3)
Listed on the Canadian DSL (Domestic Substances List)

Tetrasodium ethylene diamine tetraacetate (64-02-8)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Potassium hydroxide (1310-58-3)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Tetrasodium ethylene diamine tetraacetate (64-02-8)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

Component	State or local regulations
Potassium hydroxide(1310-58-3)	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

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations and SDS Canada (HPR 2022)

Revision date : 9/24/2025

Issue date : 10/19/2020

Data sources : US OSHA HazCom (GHS) 25 May 2012. SDS Canada (HPR 2022).

Full text of hazard classes and H-statements	
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
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

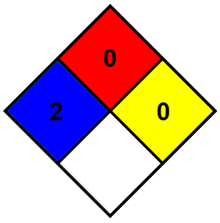
Abbreviations and acronyms	
	ACGIH (American Conference of Government Industrial Hygienists)
	CAS (Chemical Abstracts Service) number

Abbreviations and acronyms	
	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

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.

Indication of changes:		
Section	**Changed item**	**Comments**
6	Emergency procedures	**Modified**
7	Precautions for safe handling	**Modified**