



Process2Clean[®] 5 (30% Dilution)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 9/30/2019 Revision date: 7/17/2024 Supersedes: 9/30/2019 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Process2Clean[®] 5 (30% Dilution)
Product code : SDS VEL-164

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Neutral pH additive
Detergent cleaner

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: 1-(888)-595-8070

1.4. Emergency telephone 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(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation
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
Precautionary statements (GHS US) : P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective gloves, protective clothing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

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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)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|---------------------|-----------|---|
| Alcohols, C8-10, ethoxylated, propoxylated | CAS-No.: 68603-25-8 | 1 - < 5 | Eye Dam. 1, H318 |
| Surfactants | - | 0.1 – <1 | Not classified |
| Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) | CAS-No.: 139-89-9 | 0.1 - < 1 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 |
| Citric acid | CAS-No.: 77-92-9 | < 0.1 | Eye Irrit. 2A, H319 STOT SE 3, H335 |

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 symptoms develop, obtain medical attention. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water (for at least 15 minutes). Ensure that folded skin of eyelids is thoroughly washed with water. Obtain immediate medical 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. Repeated or prolonged contact may cause skin irritation. |
|---|---|

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. |
| Unsuitable extinguishing media | : None known. |

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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.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Keep upwind. Exercise caution when fighting any chemical fire. 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. 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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate area. Do not get in eyes, on skin, or on clothing. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Wear suitable protective clothing and eye or face protection. See Section 8.
Emergency procedures : Ventilate area. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Large spills: Dike far ahead of liquid spill for later disposal. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. 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 : Provide adequate ventilation. Do not get in eyes, on skin, or on clothing. Wear suitable protective clothing, gloves and eye or face protection.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials.
Incompatible materials : Strong oxidizing agents. Strong reducing agents.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation. Emergency eye wash stations should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls : Avoid release to the environment.

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 face shield

Skin and body protection:

Long-sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Yellow.
Color : Yellow
Odor : Characteristic
Odor threshold : No data available
pH : 7.5 – 9
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 : 1.01 (Concentrate)(Water = 1)
Solubility : Water: Miscible
Log Pow : No data available
Auto-ignition temperature : No data available

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| | |
|---------------------------|---------------------|
| 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).

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

Freezing.

10.5. Incompatible materials

Strong reducing agents. Strong oxidizing agents.

10.6. Hazardous decomposition products

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

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 |

| Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) (139-89-9) | |
|--|--|
| LD50 oral, rat | > 1780 – < 2000 mg/kg (OECD 401 method) |
| LD50 oral | 1612 mg/kg (calculated value) |
| LC50 inhalation, rat (mg/l) | > 3.95 mg/l (OECD 403 method) |
| Citric acid (77-92-9) | |
| LD50 oral | 5400 mg/kg body weight mouse (OECD 401 method) |
| LD50 dermal, rat | > 2000 mg/kg body weight (OECD 402 method) |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Not classified pH: 7.5 – 9 |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: 7.5 – 9 |
| Respiratory or skin sensitization | : Not classified |

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| | |
|------------------------|------------------|
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

| Citric acid (77-92-9) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Potential Adverse human health effects and symptoms | : Causes serious eye irritation. Repeated or prolonged contact may cause skin irritation. |

SECTION 12: Ecological information

12.1. Toxicity

| Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) (139-89-9) | |
|--|---|
| LC50 fish | 372 mg/l - 96 Hours (Pimephales promelas) |
| EC50 Daphnia | 192 mg/l - 48 Hours (Daphnia magna) |
| NOEC (chronic) | ≥ 25.7 mg/l - 35 days (Danio rerio) (OECD 210 method) |
| NOEC chronic fish | ≈ 30.25 mg/l (calculated value) |
| NOEC chronic crustacea | ≈ 25.6 mg/l (calculated value) |

| Citric acid (77-92-9) | |
|-----------------------|--|
| LC50 fish | 440 mg/l - 48 Hours (Leuciscus idus melanotus) (OECD 203 method) |
| EC50 Daphnia | 1532 mg/l - 24 Hours (Daphnia magna) (OECD 203 method) |
| NOEC chronic algae | 425 mg/l 8d (Scenedesmus quadricauda) |

12.2. Persistence and degradability

| Process2Clean® 5 (30% Dilution) | |
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| Persistence and degradability | No data available. |

| Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) (139-89-9) | |
|--|---|
| Persistence and degradability | Not expected to be readily biodegradable. |

| Alcohols, C8-10, ethoxylated, propoxylated (68603-25-8) | |
|---|------------------|
| Persistence and degradability | Not established. |

| Citric acid (77-92-9) | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |

| Surfactants | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| Process2Clean® 5 (30% Dilution) | |
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| Bioaccumulative potential | No data available. |

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| Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) (139-89-9) | |
|--|--------------------------------|
| BCF - Fish [1] | 3.2 l/kg (calculated value) |
| Bioaccumulative potential | Not expected to bioaccumulate. |
| Citric acid (77-92-9) | |
| Log Pow | -1.7 Source: ICSC |
| Bioaccumulative potential | Not expected to bioaccumulate. |

12.4. Mobility in soil

| Process2Clean® 5 (30% Dilution) | |
|--|---------------------------------|
| Ecology - soil | Soluble in water. |
| Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) (139-89-9) | |
| Ecology - soil | Not expected to adsorb to soil. |
| Alcohols, C8-10, ethoxylated, propoxylated (68603-25-8) | |
| Mobility in soil | 1114 Source: EPISUITE |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Do not discharge into drains or the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

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

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IMDG

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

IATA

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

14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Not applicable - 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. See SDS #VEL-017 for hazards of undiluted product.

DOT

No data available

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

| Process2Clean® 5 (30% Dilution) | |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Health hazard - Serious eye damage or eye irritation |

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

| | | |
|-------------|---------|-----------|
| Surfactants | CAS-No. | 0.1 – <1% |
|-------------|---------|-----------|

15.2. International regulations

CANADA

| Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) (139-89-9) |
|--|
| Listed on the Canadian DSL (Domestic Substances List) |

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Alcohols, C8-10, ethoxylated, propoxylated (68603-25-8)

Listed on the Canadian DSL (Domestic Substances List)

Citric acid (77-92-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) (139-89-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Citric acid (77-92-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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

Revision date : 7/17/2024
Data sources : US OSHA HazCom (GHS) 25 May 2012.
Other information : None.

Full text of H-phrases

| | |
|------|----------------------------------|
| H302 | Harmful if swallowed |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

Abbreviations and acronyms

| | |
|--|---|
| | ACGIH (American Conference of Government Industrial Hygienists) |
| | ATE (Acute Toxicity Estimate) |
| | CAS (Chemical Abstracts Service) number |
| | DNEL (Derived No Effect Level) |
| | 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) |

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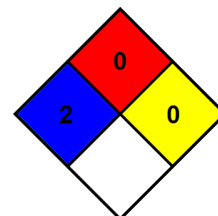
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| Abbreviations and acronyms | |
|----------------------------|---|
| | LC50 (Lethal Concentration 50%) |
| | LD50 (Lethal Dose 50%) |
| | OECD (Organisation for Economic Co-operation and Development) |
| | OSHA (Occupational Safety and Health Administration) (US) |
| | PBT (Persistent, Bioaccumulative and Toxic) |
| | PNEC (Predicted No Effect Concentration) |
| | STEL (Short Term Exposure Limit) |
| | TSCA (Toxic Substances Control Act) (US) |
| | TWA (Time Weighted Average) |
| | UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods) |
| | vPvB (very Persistent and very Bioaccumulative) |

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.

Personal protection : B - Safety glasses, Gloves

| Indication of changes: | | | |
|------------------------|---|----------|-------------------------------------|
| Section | Changed item | Change | Comments |
| 4 | First aid measures | Modified | No additional information available |
| 6 | Accidental release measures | Modified | No additional information available |
| 7 | Handling and storage | Modified | No additional information available |
| 8 | Exposure controls / Personal protection equipment | Modified | No additional information available |
| 11 | Toxicological information | Modified | No additional information available |
| 12. | Ecological information | Modified | No additional information available |
| 13 | Disposal considerations | Modified | No additional information available |
| 15 | Regulatory information | Modified | No additional information available |

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This SDS has been translated into the official language of the country/region in which the product is to be placed on the market. Where no official translation exists, the regulatory text is reported in English, as it appears in the relevant regulatory text.