


CHALLENGE

1. IDENTIFICATION	
Product name	: CHALLENGE
Product code	: 05-10020
Other means of identification	: Not available.
Supplier	: Sani-Marc Inc. 42 rue de l'Artisan Victoriaville, Qc G6P 7E3 1-819-758-1541
Manufacturer	: Sani-Marc Inc. 42 rue de l'Artisan Victoriaville, Qc G6P 7E3 1-819-758-1541
Identified uses	: Industrial applications: Degreaser Approved for use in Food & Beverage plants.
Uses advised against	: Only use this product as directed. Read label before using. This product is not intended for domestic use.
Date of issue (YYYY-MM-DD)	: 2022-04-14
In case of emergency : Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)	

2. HAZARDS IDENTIFICATION	
Information in this section only concerns the product as supplied. Contact your account manager to get more information on diluted form hazards identification.	
Product Classification	: SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 Health Hazards Not Otherwise Classified - Category 1
Signal word	: Danger
Hazard pictograms	: 
Hazard statements	: Causes severe skin burns and eye damage. Causes digestive tract burns.
<u>Precautionary statements</u>	
Prevention	: Wear protective gloves: < 1 hour (breakthrough time): Chemical-resistant, impervious gloves . Wear protective clothing: Recommended: safety apron. Wear eye or face protection: Recommended: Safety Glasses. Wash thoroughly after handling.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: No additional information.
Other hazards which do not result in classification	: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Name	CAS number	% (w/w)
2-butoxyethanol	111-76-2	5 - 10
disodium metasilicate	6834-92-0	1 - 5
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	68081-81-2	1 - 5
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5
sodium xylenesulphonate	1300-72-7	1 - 5
tetrasodium ethylene diamine tetraacetate	64-02-8	1 - 5

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of required first aid measures

- Eye contact** In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get medical attention. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.
- Skin contact** Rinse with water. Remove contaminated clothing and wash it before reuse. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.
- Ingestion** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician. Get medical attention if symptoms occur.
- Inhalation** Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.

Most important symptoms/effects, acute and delayed

- Eye contact** Adverse symptoms may include the following:
pain
watering
redness
- Skin contact** Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** Adverse symptoms may include the following:
stomach pains
- Inhalation** Adverse symptoms may include the following:
respiratory tract irritation
coughing

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

Special fire-fighting procedures Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Initiate spill response procedures if required.
Personal protection	Put on appropriate personal protective equipment (see Section 8).
Cleaning method	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.
Storage and Incompatibility	Store in accordance with local regulations. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of reach of children. Store away from incompatible materials (see Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Ingredient name	Exposure limits
2-butoxyethanol	<p>CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. 8 hrs OEL: 97 mg/m³ 8 hours. 8 hrs OEL: 20 ppm 8 hours.</p> <p>CA British Columbia Provincial (Canada, 1/2020). TWA: 20 ppm 8 hours.</p> <p>CA Ontario Provincial (Canada, 6/2019). Absorbed through skin. TWA: 20 ppm 8 hours.</p> <p>CA Quebec Provincial (Canada, 7/2019). TWA_{EV}: 20 ppm 8 hours. TWA_{EV}: 97 mg/m³ 8 hours.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours.</p>

Appropriate engineering controls If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Eye/face protection	Continued or severe exposures might required to wear a face shield or chemical splash goggles. It is minimally suggested to wear safety glasses while using or handling this product.
Hands and Body protection	It is suggested to wear chemical-resistant gloves while using or handling this product. It is suggested to wear safety apron while using or handling this product.
Respiratory protection	No specific protective equipment required under normal use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid. [Transparent liquid]	pH	13	Flash point	[Product does not sustain combustion.]
Color	Orange. [Dark]	Relative density	1.07	Melting point	Not available.
Odor	Butyl	Viscosity	Dynamic: 165 mPa·s (165 cP)	Boiling point	Not available.
Odor threshold	Not available.	Vapor pressure	Not available.	Fire point	: Not available.
Solubility in water	: Not available.	Vapor density	: Not available.	Evaporation rate	: Not available.
Decomposition temperature	: Not available.	Auto-ignition temperature	: Not available.		
Partition coefficient: n-octanol/water	: Not applicable.	Flammability (solid, gas)	: Not available.		
Lower and upper explosive (flammable) limits	: Not available.				

10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Incompatible materials	Reactive or incompatible with acids.
Conditions to avoid	No specific data.
Possibility of hazardous reactions	May cause an exothermic reaction in presence of acids.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Route of exposure	Routes of entry anticipated: Dermal. Routes of entry not anticipated: Oral, Inhalation.	
	<u>Potential acute health effects</u>	<u>Symptoms</u>
Eye contact	May cause eye burn	Adverse symptoms may include the following: pain watering redness
Skin contact	May cause skin burns	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.	Adverse symptoms may include the following: stomach pains
Inhalation	Inhalation of vapors or mist may cause respiratory tract irritation.	Adverse symptoms may include the following: respiratory tract irritation coughing

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LC50 Inhalation Vapor	Rat	450 ppm	4 hours
	LD50 Oral	Rat	560 mg/kg	-
disodium metasilicate	LD50 Oral	Rat	1153 mg/kg	-
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	LD50 Oral	Rat	438 mg/kg	-
Alcohols, C9-11, ethoxylated	LD50 Dermal	Rabbit	2001 mg/kg	-
	LD50 Oral	Rat	2001 mg/kg	-
tetrasodium ethylene diamine tetraacetate	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	10 g/kg	-

Information on toxicological effects

Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
Sensitization	Not available.
Carcinogenicity	No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Ecotoxicity data

Product/ingredient name	Result	Species	Exposure

2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water Acute LC50 800000 µg/l Marine water Acute LC50 1250000 µg/l Marine water	Daphnia - Daphnia magna Crustaceans - Crangon crangon Fish - Menidia beryllina	48 hours 48 hours 96 hours
disodium metasilicate	Acute EC50 33.53 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Alcohols, C9-11, ethoxylated	Acute LC50 2320 ppm Fresh water Acute EC50 55 mg/l Acute EC50 7.5 mg/l Acute EC50 2686 µg/l Fresh water	Fish - Gambusia affinis - Adult Algae Daphnia Daphnia - Daphnia magna - Neonate	96 hours 72 hours 48 hours 48 hours
tetrasodium ethylene diamine tetraacetate	Acute LC50 7.5 mg/l Acute LC50 486000 µg/l Fresh water	Fish Fish - Lepomis macrochirus	96 hours 96 hours

Persistence and degradability : Unknown **Bioaccumulative potential** : Unknown **Mobility in soil** : Unknown **Other adverse effects** : Unknown

13. DISPOSAL CONSIDERATIONS

Disposal methods Dispose content and container in accordance with local, regional and national regulation in force.

14. TRANSPORT INFORMATION

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	TDG Placard
TDG Classification	UN1760	Corrosive liquids n.o.s. (disodium metasilicate)	8	III	

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).

Remarks Limited Qt Index 5L

Additional information See shipping documents for specific information on DOT, IMDG or IATA

15. REGULATORY INFORMATION

Canadian lists

Canadian NPRI The following components are listed: 2-butoxyethanol

CEPA Toxic substances The following components are listed: 2-butoxyethanol

Canada inventory Not determined.

International lists

United States Not determined.

16. OTHER INFORMATION

Hazardous Material Information System (U.S.A.)

Health Hazard	*	2
Fire Hazard		0
Reactivity		0
Personal Protection		C

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Prepared by : Regulatory Affairs Department

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Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.