

## SECTION 1 - IDENTIFICATION

<b>Product identifier/Trade name:</b>	SAFEBLEND HEAVY DUTY CLEANER & DEGREASER, CONCENTRATED, Tangerine oil
<b>Other means of identification:</b>	DCTO
<b>Recommended use:</b>	Heavy duty cleaner & degreaser
<b>Restriction on use:</b>	For industrial, institutional and food plants use only.
<b>Initial supplier identifier:</b>	Chemotec (PM) Inc. 8820 Place Ray-Lawson Anjou, Quebec, Canada H1J 1Z2 Phone: (514) 729-6321; 1-800-729-6321
<b>Emergency phone number:</b>	(613) 996-6666 (CANUTEC)

## SECTION 2 - HAZARDS IDENTIFICATION

### 2a WHMIS 2015 - GHS (Globally Harmonized System) classification

This product is classified as a skin irritant category 2 and an eye irritant category 2

### 2b Label elements



#### Pictogram

#### Hazard statement

Causes serious eye irritation. Causes skin irritation.

#### Precautionary statement

Wash hands thoroughly after handling. Wear eye protection. Wear rubber gloves.

**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.**

**IF ON SKIN: Wash with plenty water. If skin irritation occurs: get medical advice. Take off contaminated clothing and wash it before reuse.**

#### Signal word:

**Warning.**

<b>SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS</b>
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Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
Ethoxylated alcohol	68991-48-0	1-5	Eye irritation, category 2
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	0.1-1	Eye irritation, category 2 Skin irritation, category 2

The actual concentrations are withheld as a trade secret.

<b>SECTION 4 - FIRST AID MEASURES</b>
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#### 4a Description of first aid measures

**Eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

**Skin contact:**

Wash with plenty water. If skin irritation occurs: get medical advice. Take off contaminated clothing and wash it before reuse.

**Inhalation:**

No effect expected.

**Ingestion:**

Rinse mouth. Call a doctor if you feel unwell. Never give anything by mouth if the person is unconscious

#### 4b Most important symptoms and effects

**Eye:** May cause irritation, redness, tears, burning sensation.

**Skin:** May cause irritation.

**Inhalation:** No effect expected.

**Ingestion:** May cause slight irritation, headache, abdominal pain, diarrhoea, nausea and vomiting.

#### 4c Immediate medical attention and special treatment needed

No special treatment

<b>SECTION 5 - FIRE FIGHTING MEASURES</b>
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#### 5a Extinguishing media

Suitable extinguishing media:

Water (if possible avoid powerful jets), foam, dry chemicals, carbon dioxide. Product itself is not flammable.

Unsuitable extinguishing media:

None known.

#### Specific hazards for product

Hazardous combustion products:

Oxides of carbon, nitrogen and other irritating gases.

#### Special protective equipment and precautions for firefighters

Special fire-fighting procedures/equipment:

During a fire, irritating smoke and fumes may be generated. A self-contained breathing apparatus is required for fire-fighting personnel to protect themselves from irritating products produced during the combustion. Move containers from fire area if it can be done without risk. A stream of water directed into the product generates a lot of foam.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**6a Personal precautions, protective equipment and emergency procedures**

Personal protection:

Avoid contact with eyes. Use adequate aeration and ventilation. Floor will be slippery in case of a spill. Use appropriate personal protection equipment (see section 8)

**6b Methods and materials for containment and cleaning:**

Stop the leak. For large spills, pump the product into drums or clean up spills using absorbent material. Resume cleaning by rinsing with water. Caution: floors will be slippery.

**6c Environmental precautions:**

Product is biodegradable. Do not let large quantities go to the sewers.

**SECTION 7 - HANDLING AND STORAGE**

**7a Precautions for Safe handling:**

Avoid contact with eyes. When used as directed, no special precautions.

**7b Condition for safe storage:**

Store in a sealed container in a well-ventilated place. Do not store with food products. Keep from freezing.

**7c Special packaging materials:** none.

No incompatibility with most materials found in most workplaces.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

8a Control parameters

	Ontario Time-weighted Average Limit (TWA)	Ontario Short-Term Exposure Limit (STEL)	Notations
Ethoxylated alcohol	None established	None established	
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	None established	None established	

**8b Engineering controls:**

Not required under normal applications.

**8c Individual protection measures**

Respiratory Protection:

Not required under normal applications.

Skin protection and other protective equipment:

Waterproof boots for large spills. Rubber gloves.

Eye / face protection:

Not required under normal applications.

General hygiene considerations:

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with eyes. Never eat, drink, or smoke in work areas. Good hygiene is recommended after use of this product.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and odour:</b>	Colourless to yellow liquid, tangerine oil odour.
<b>Odour threshold:</b>	N/Av
<b>pH :</b>	Approximately 12
<b>Melting point and freezing point:</b>	Approximately 0 °C
<b>Boiling point:</b>	Approximately 100 °C
<b>Flash point:</b>	None to boil
<b>Evaporation rate (n-BuAc =1):</b>	Approximately 0.4 (water)
<b>Lower flammable limit (% by volume):</b>	N/Av
<b>Upper flammable limit (% by volume):</b>	N/Av.
<b>Explosion data - Sensitivity to mechanical impact:</b>	Not sensitive
<b>Explosion data - Sensitivity to static discharge:</b>	Not sensitive
<b>Vapour pressure (mm Hg)</b>	Approximately 20 (water)
<b>Vapour density:</b>	Approximately 0.6 (water)
<b>Specific gravity or density (water = 1 at 4 °C):</b>	1.04 g/cm <sup>3</sup> @ 20 °C
<b>Solubility in water:</b>	Miscible
<b>Partition coefficient – n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity:</b>	<100 cps @ 25 °C

## SECTION 10 - STABILITY AND REACTIVITY

### 10a Reactivity:

Not applicable when used as directed.

### 10b Chemical stability :

Stable at room temperature, in normal handling and storage conditions.

### 10c Possibility of hazardous reactions:

May react with strong acids.

### 10d Conditions to avoid:

Avoid contact with strong acids.

### 10e Incompatible materials

Strong acids

### 10f Hazardous decomposition products:

With strong acids: heat, water vapour.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Primary entry route(s):** Eye and ingestion.

**Eye:** May cause irritation, redness, tears, burning sensation.

**Skin:** May dry skin. Prolonged contact may cause irritation.

**Inhalation:** No effect expected.

**Ingestion:** May cause slight irritation, headache, abdominal pain, diarrhoea, nausea and vomiting.

**Carcinogenicity:**

No ingredient listed by IARC as a possible carcinogen.

**Teratogenicity, mutagenicity, other reproductive effects:**

Mutagenic tests have been negative for ingredients

**Skin sensitization:**

Ingredients not sensitizing as per OECD 406

**Respiratory tract sensitization:**

Not available

**Synergistic materials:**

Not available

**Other important hazards:**

Not available

**Toxicological data:** The calculated LD<sub>50</sub> for this product is greater than 10,000 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD <sub>50</sub> (route, species)	LC <sub>50</sub> # hours (species)
Ethoxylated alcohol	>2,000 mg/kg (oral, rat)	N/Av
	>2,000 mg/kg (dermal, rabbit)	N/Av
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	1,850 mg/kg (oral, rat)	N/Av
	>2,000 mg/kg (dermal, rabbit)	

For more details, refer to Section 3.

## SECTION 12 - ECOLOGICAL INFORMATION

### 12a Ecotoxicity :

TOXICITY (Fish)	Results	Exposure time	Method
Ethoxylated alcohol	70.1 mg/kg	48H	Not available
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Rainbow Trout No Observable Effect Concentration 1,70 mg/L	96H	Not available

TOXICITY (Daphnia)	Results	Exposure time	Method
Ethoxylated alcohol	5.3 mg/L	48H	Not available
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	16,6 mg/L	48H	Not available

TOXICITY (Algae)	Results	Exposure time	Method
Ethoxylated alcohol	NOT AVAILABLE		
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Green algae 45 mg/L	96H	Not available

**12b Persistence and degradability:** Product is expected to be readily biodegradable as per OECD 301.

**12c Bioaccumulation potential:** Not available

**12d Mobility in soil:** There is no test data on this product.

**12e Other adverse effect** No applicable information found

## SECTION 13 - DISPOSAL CONSIDERATIONS

Eliminate according to federal, provincial and local regulations.

For additional information, at the federal level, see <http://www.ec.gc.ca/gdd-mw/default.asp?lang=En&n=39D0D04A-1>

In Alberta, see <http://esrd.alberta.ca/waste/hazardous-waste-management/default.aspx>

In B.C., see <http://www2.gov.bc.ca/gov/topic.page?id=DC31CEF84F634025839C66F7F80164E8>

In Manitoba, see <http://www.gov.mb.ca/conservation/eal/haz-waste/faq/index.html>

In New-Brunswick, see [http://breaudisposal.nb.ca/breaudisposal/prohibited\\_waste.htm](http://breaudisposal.nb.ca/breaudisposal/prohibited_waste.htm)

In NFLD, see [http://www.env.gov.nl.ca/env/env\\_protection/waste/](http://www.env.gov.nl.ca/env/env_protection/waste/)

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In Northwest territories, see <http://www.enr.gov.nt.ca/programs/hazardous-waste>

In Nova Scotia, see <http://novascotia.ca/snsmr/paal/nse/paal180.asp>

In Nunvaut, see <http://www.nmto.ca/course/other-training/hazardous-waste-management>

In Ontario, see <https://www.ontario.ca/environment-and-energy/hazardous-waste-management-business-and-industry>

In PEI, see <http://www.gov.pe.ca/environment/hazardous-waste>

In Quebec, see <http://www.mddelcc.gouv.qc.ca/matieres/dangereux/>

In Saskatchewan, see <http://www.publications.gov.sk.ca/details.cfm?p=24515>

In Yukon, see [http://www.env.gov.yk.ca/air-water-waste/special\\_waste\\_regs.php](http://www.env.gov.yk.ca/air-water-waste/special_waste_regs.php)

## SECTION 14 - TRANSPORTATION INFORMATION

### Transportation of Dangerous Goods (TDG) in Canada :

Not regulated

UN number

Not applicable

Proper shipping name:

Not applicable

Class:

Not applicable

Identification number:

Not applicable

Packing group:

Not applicable

Special case:

Not applicable

## SECTION 15 - REGULATORY INFORMATION

### In Canada

#### WHMIS information:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and this safety data sheet (SDS) contains all the information required by the HPR.

**WHMIS Classification:** See section 2a

**CEPA information:** Ingredients are listed on the DSL inventory.

## SECTION 16 - OTHER INFORMATION

**Date of latest revision** 2017-11-02

#### References:

1. Manufacturer'/suppliers' MSDS.
2. Occupational Exposure Limits for Ontario Workplaces required under Regulation 833
3. International Agency for Research on Cancer Monographs
4. The European Chemicals Agency (ECHA) website.

#### Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
cps	Centipoises
DSL	Domestic Substance List
HMIS	Hazardous Material Information System
IARC	International Agency for Research on Cancer

LC	Lethal concentration
LD	Lethal Dosage
N/Av	Not available
N/Ap	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
WHMIS	Workplace Hazardous Materials Information System

End of the MSDS