

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

SECTION 1. IDENTIFICATION

Product name : INDUSTRIAL STRENGTH DEGREASER, Ready-to-use, 4 L

Product code : 893.474121

Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : Würth Canada Limited

Address : 345 Hanlon Creek Blvd
GUELPH, ON N1C 0A1

Telephone : +1 (905) 564 6225

Telefax : +1 (905) 564 3671

Emergency telephone : Emergencies involving a spill, fire, explosion or exposure:
CHEMTREC (24/7): 1-800-424-9300
Transport related emergencies:
CANUTEC (24/7): 1-613-996-6666 or * 666 (cell)

Urgences impliquant un déversement, incendie, explosion ou exposition:
CHEMTREC (24/7): 1-800-424-9300
Urgences liées au transport:
CANUTEC (24/7): 1-613-996-6666 ou * 666 (cellulaire)

E-mail address : prodsafe@wurth.ca

Recommended use of the chemical and restrictions on use

Recommended use : Cleansing agents, alkaline.
Detergent

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the Hazardous Products Regulations**

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ toxicity : Category 2 (Respiratory Tract)
- repeated exposure

GHS label elements

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Ready-to-use, 4 L**

Version 4.1 Revision Date: 11/05/2020 SDS Number: 1463836-00005 Date of last issue: 04/29/2020
Date of first issue: 10/15/2013

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.

Precautionary Statements

: **Prevention:**P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves, eye protection and face protection.**Response:**P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 + P310 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.
P314 Get medical attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.**Disposal:**

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Disodium metasilicate	6834-92-0	>= 1 - < 5 *
Propylene glycol n-propyl ether	1569-01-3	>= 1 - < 5 *
Alcohols, C9-11, ethoxylated	68439-46-3	>= 1 - < 5 *
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	>= 1 - < 5 *
Tetrasodium ethylenediaminetetraacetate	64-02-8	>= 1 - < 5 *

* Actual concentration or concentration range is withheld as a trade secret

**INDUSTRIAL STRENGTH DEGREASER,
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Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.
-

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Not applicable
Will not burn
- Unsuitable extinguishing media : Not applicable
Will not burn
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
Sulfur oxides
Metal oxides
Silicon oxides
Nitrogen oxides (NOx)
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**INDUSTRIAL STRENGTH DEGREASER,
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Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g., by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
-

SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not get on skin or clothing.
Do not breathe mist or vapors.
Do not swallow.
Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

**INDUSTRIAL STRENGTH DEGREASER,
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Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

- assessment
Keep container tightly closed.
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled containers.
Keep tightly closed.
Store in accordance with the particular national regulations.
- Materials to avoid : No special restrictions on storage with other products.
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

- Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
- Filter type : Combined particulates and organic vapor type
- Hand protection
- Material : Chemical-resistant gloves
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often!
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Eye protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the wor-

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Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

king place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear, green
Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	11.0 - 11.4
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	100 °C
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	1.01 - 1.02 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	No data available

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Decomposition temperature : No data available

Viscosity
Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None known.

Conditions to avoid : None known.

Incompatible materials : Acids

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version 4.1 Revision Date: 11/05/2020 SDS Number: 1463836-00005 Date of last issue: 04/29/2020
Date of first issue: 10/15/2013

Components:**Disodium metasilicate:**

Acute inhalation toxicity : LC50 (Rat): > 2 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OPPTS 870.1300
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OPPTS 870.1200
Remarks: Based on data from similar materials

Propylene glycol n-propyl ether:

Acute oral toxicity : LD50 (Rat, female): 2,490 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): > 8.43 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit, male): 3,775 mg/kg

Alcohols, C9-11, ethoxylated:

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Benzenesulfonic acid, C10-16-alkyl derivs.:

Acute oral toxicity : LD50 (Rat): 775 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.9 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): 2,000 mg/kg

Tetrasodium ethylenediaminetetraacetate:

Acute oral toxicity : LD50 (Rat): 1,780 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 1 mg/l
Exposure time: 6 h
Test atmosphere: dust/mist
Remarks: Based on data from similar materials

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Skin corrosion/irritation

Causes skin irritation.

Components:**Disodium metasilicate:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 3 minutes to 1 hour of exposure
Remarks	:	Based on data from similar materials

Propylene glycol n-propyl ether:

Species	:	Rabbit
Result	:	No skin irritation

Alcohols, C9-11, ethoxylated:

Species	:	Rabbit
Result	:	No skin irritation
Remarks	:	Based on data from similar materials

Benzenesulfonic acid, C10-16-alkyl derivs.:

Species	:	Rabbit
Result	:	Corrosive after 4 hours or less of exposure
Remarks	:	Based on data from similar materials

Tetrasodium ethylenediaminetetraacetate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:**Disodium metasilicate:**

Result	:	Irreversible effects on the eye
Remarks	:	Based on skin corrosivity.

Propylene glycol n-propyl ether:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

Alcohols, C9-11, ethoxylated:

Species	:	Rabbit
Result	:	Irreversible effects on the eye
Remarks	:	Based on data from similar materials

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Benzenesulfonic acid, C10-16-alkyl derivs.:

Result : Irritation to eyes, reversing within 21 days

Tetrasodium ethylenediaminetetraacetate:

Result : Irreversible effects on the eye
Remarks : Based on harmonised classification in EU regulation
1272/2008, Annex VI

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:**Disodium metasilicate:**

Test Type : Local lymph node assay (LLNA)
Routes of exposure : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : negative

Propylene glycol n-propyl ether:

Test Type : Local lymph node assay (LLNA)
Routes of exposure : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : negative

Alcohols, C9-11, ethoxylated:

Test Type : Buehler Test
Routes of exposure : Skin contact
Species : Guinea pig
Result : negative
Remarks : Based on data from similar materials

Benzenesulfonic acid, C10-16-alkyl derivs.:

Test Type : Human repeat insult patch test (HRIPT)
Routes of exposure : Skin contact
Result : negative
Remarks : Based on data from similar materials

Tetrasodium ethylenediaminetetraacetate:

Test Type : Maximization Test
Routes of exposure : Skin contact

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Species : Guinea pig
Method : OECD Test Guideline 406
Result : negative
Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:**Disodium metasilicate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Ingestion
Result: negative

Propylene glycol n-propyl ether:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Alcohols, C9-11, ethoxylated:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on data from similar materials

Benzenesulfonic acid, C10-16-alkyl derivs.:

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Tetrasodium ethylenediaminetetraacetate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:**Tetrasodium ethylenediaminetetraacetate:**

Species : Rat
Application Route : Ingestion
Exposure time : 103 weeks
Result : negative
Remarks : Based on data from similar materials

Species : Mouse
Application Route : Ingestion
Exposure time : 103 weeks
Result : negative
Remarks : Based on data from similar materials

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version 4.1 Revision Date: 11/05/2020 SDS Number: 1463836-00005 Date of last issue: 04/29/2020
Date of first issue: 10/15/2013

Reproductive toxicity

Not classified based on available information.

Components:**Propylene glycol n-propyl ether:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor)
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rabbit
Application Route: inhalation (vapor)
Result: negative

Alcohols, C9-11, ethoxylated:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Skin contact
Result: negative

Effects on fetal development : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Skin contact
Result: negative

Benzenesulfonic acid, C10-16-alkyl derivs.:

Effects on fertility : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 415
Result: negative
Remarks: Based on data from similar materials

Tetrasodium ethylenediaminetetraacetate:

Effects on fertility : Test Type: Four-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.

Components:**Tetrasodium ethylenediaminetetraacetate:**

Routes of exposure	:	inhalation (dust/mist/fume)
Target Organs	:	Respiratory Tract
Assessment	:	Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

Repeated dose toxicity**Components:****Disodium metasilicate:**

Species	:	Rat
NOAEL	:	>= 227 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

Propylene glycol n-propyl ether:

Species	:	Rat
NOAEL	:	1.474 mg/l
Application Route	:	inhalation (vapor)
Exposure time	:	90 Days

Alcohols, C9-11, ethoxylated:

Species	:	Rat
NOAEL	:	>= 500 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days
Remarks	:	Based on data from similar materials

Benzenesulfonic acid, C10-16-alkyl derivs.:

Species	:	Rat
NOAEL	:	> 300 mg/kg
Application Route	:	Ingestion
Exposure time	:	29 Days
Method	:	OECD Test Guideline 407
Remarks	:	Based on data from similar materials

Species	:	Rat
NOAEL	:	> 600 mg/kg
Application Route	:	Skin contact
Exposure time	:	28 Days
Method	:	OECD Test Guideline 410
Remarks	:	Based on data from similar materials

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Tetrasodium ethylenediaminetetraacetate:

Species	:	Mouse
NOAEL	:	>= 938 mg/kg
Application Route	:	Ingestion
Exposure time	:	103 Weeks
Remarks	:	Based on data from similar materials

Species	:	Rat
LOAEL	:	0.03 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	4 Weeks
Remarks	:	Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Disodium metasilicate:**

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 210 mg/l Exposure time: 96 h Method: ISO 7346/1
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
Toxicity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

Propylene glycol n-propyl ether:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 3,440 mg/l

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 500 mg/l

Exposure time: 72 h

Alcohols, C9-11, ethoxylated:

Toxicity to fish : LC50: > 1 - 10 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Benzenesulfonic acid, C10-16-alkyl derivs.:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test substance: Water Accommodated Fraction
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Test substance: Water Accommodated Fraction
Remarks: Based on data from similar materials

NOELR (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50: > 100 mg/l
Exposure time: 8 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Tetrasodium ethylenediaminetetraacetate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 121 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 140 mg/l
Exposure time: 48 h
Method: DIN 38412

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l
Exposure time: 72 h
Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): > 25.7 mg/l
Exposure time: 35 d
Method: OECD Test Guideline 210
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 25 mg/l
Exposure time: 21 d
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10: > 1,000 mg/l
Exposure time: 30 min
Method: ISO 8192

Persistence and degradability**Components:****Propylene glycol n-propyl ether:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: 91.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301A

Alcohols, C9-11, ethoxylated:

Biodegradability : Result: rapidly degradable

Benzenesulfonic acid, C10-16-alkyl derivs.:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301D
Remarks: Based on data from similar materials

Tetrasodium ethylenediaminetetraacetate:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 - 10 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
Remarks: Based on data from similar materials

Bioaccumulative potential**Components:****Propylene glycol n-propyl ether:**

Partition coefficient: n-octanol/water : log Pow: 0.621
Remarks: Calculation

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

Benzenesulfonic acid, C10-16-alkyl derivs.:

Partition coefficient: n-
octanol/water : log Pow: > 4
Remarks: Calculation

Tetrasodium ethylenediaminetetraacetate:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 1.8

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation**TDG**

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION**Volatile organic compounds
(VOC) content**

CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999 -
Guidelines for VOC in Consumer Products
VOC content: 2.25 %

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

Version	Revision Date:	SDS Number:	Date of last issue: 04/29/2020
4.1	11/05/2020	1463836-00005	Date of first issue: 10/15/2013

The ingredients of this product are reported in the following inventories:

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 11/05/2020
Date format : mm/dd/yyyy

**INDUSTRIAL STRENGTH DEGREASER,
Ready-to-use, 4 L**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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