		Page: 1
SAFETY DATA SHEET		Revision Date: 07/31/2015
		Print Date: 1/20/2016
		SDS Number: R0369589
HEAVY DUTY DEGREASER DEGREASER		Version: 1.1
VV890		

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : HEAVY DUTY DEGREASER
DEGREASER

Recommended use of the chemical and restrictions on use



<p>Details of the supplier of the safety data sheet Niteo Products, LLC P.O. Box 191629 Dallas TX 75219 United States of America</p>	<p>Emergency telephone number CHEMTREC DIRECT 1-800-424-9300</p> <p>Product Information 1-844-696-4836</p>
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1
 Serious eye damage : Category 1
 Specific target organ systemic toxicity - repeated exposure (Inhalation) : Category 2 (Respiratory Tract)

GHS Label element

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

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/ physician.

Get medical advice/ attention if you feel unwell.

Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT	25155-30-0	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 2; H401 Aquatic Chronic 3; H412	3.77
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	Flam. Liq. 4; H227 Acute Tox. 4; H302	3.70

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016


SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

		Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	
SODIUM METASILICATE	6834-92-0	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 STOT SE 3; H335	2.22
ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT	64-02-8	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2A; H319 STOT RE 2; H373	1.17
SODIUM XYLENE SULFONATE	1300-72-7	Eye Irrit. 2B; H320	1.16
ALCOHOL ETHOXYLATE		Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	1.00

		Page: 4
SAFETY DATA SHEET		Revision Date: 07/31/2015
		Print Date: 1/20/2016
		SDS Number: R0369589
HEAVY DUTY DEGREASER DEGREASER		Version: 1.1
VV890		

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If breathed in, move person into fresh air.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
Cough
Bloody urine
lung edema (fluid buildup in the lung tissue)
Difficulty in breathing
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure if inhaled.
Causes severe burns.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

Water spray
Foam
Carbon dioxide (CO2)
Dry chemical

- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide
Sulphur oxides
Aldehydes
Ketones
Organic acids
Hydrogen
toxic fumes
Ammonia
Nitrogen oxides (NOx)
Hydrocarbons
- Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapours/dust.
 Do not smoke.
 When diluting, always add the product to water. Never add water to the product.
 Container hazardous when empty.
 Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.


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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	TWA	20 ppm	ACGIH
		REL	5 ppm 24 mg/m ³	NIOSH/GUIDE
		PEL	50 ppm 240 mg/m ³	OSHA_TRANNS

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	Sampling time: End of shift.	200 mg/g	

- Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

		Page: 7
SAFETY DATA SHEET		Revision Date: 07/31/2015
		Print Date: 1/20/2016
		SDS Number: R0369589
HEAVY DUTY DEGREASER DEGREASER		Version: 1.1
VV890		

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

Skin and body protection

: Wear as appropriate:
impervious clothing
Chemical resistant apron
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.
When using do not eat or drink.
Ensure that eyewash stations and safety showers are close to the workstation location.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : purple

Odour : No data available

Odour Threshold : No data available

pH : 13 - 14

Melting point/freezing point : No data available

Boiling point/boiling range : 212 °F / 100 °C
(1,013.333333 hPa)
Calculated Phase Transition Liquid/Gas

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

- Vapour pressure : 25.44165 hPa Calculated Vapor Pressure
- Relative vapour density : No data available
- Relative density : 1.05 (60.00 °F)
- Density : 1.05 g/cm³ (60.00 °F)
- Solubility(ies)
 - Water solubility : No data available
 - Solubility in other solvents : No data available
- Partition coefficient: n-octanol/water : No data available
- Thermal decomposition : No data available
- Viscosity
 - Viscosity, dynamic : No data available
 - Viscosity, kinematic : No data available
- Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

- Reactivity : No decomposition if stored and applied as directed.
- Chemical stability : Stable under recommended storage conditions.
- Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
- Conditions to avoid : excessive heat
Do not allow evaporation to dryness.
- Incompatible materials : Acids
aluminum
aluminum salts
Amines
Ammonia
Bases
chlorates
Chlorine
Copper
Copper alloys
Lead

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

Nickel
 Oxidizing agents
 Reducing agents
 reactive metals such as aluminum and magnesium
 salts of strong bases
 steel
 Tin
 water
 Zinc

Hazardous decomposition products

Aldehydes
 carbon dioxide and carbon monoxide
 Hydrogen
 Nitrogen oxides (NO_x)
 Organic acids
 Sulphur oxides
 toxic fumes
 Ammonia
 ketones

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity

Not classified based on available information.

Components:
ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT:

Acute oral toxicity : LD 50 (Rat): 1,080 mg/kg
 Method: OECD Test Guideline 401
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD 50 (Rat): > 2,000 mg/kg
 Method: OECD Test Guideline 402
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.
 Remarks: Information given is based on data obtained from similar substances.

ETHYLENE GLYCOL MONOBUTYL ETHER:

Acute oral toxicity : LD 50 (Guinea pig): 1.2 g/kg

Acute inhalation toxicity : LC 50 (Guinea pig): > 633 ppm
 Exposure time: 1 h
 Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

Acute dermal toxicity : LD 50 (Rabbit): 400 - 500 mg/kg
 LD 50 (Guinea pig): > 2,000 mg/kg

SODIUM METASILICATE:

Acute oral toxicity : LD 50 (Rat): 1,153 mg/kg
 Remarks: Corrosive by Ingestion

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Acute oral toxicity : LD 50 (Rat, Female): 1,780 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1 - 5 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

SODIUM XYLENE SULFONATE:

Acute oral toxicity : LD50 (Rat): > 7,000 mg/kg
 Method: OECD Test Guideline 401
 GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.41 mg/l
 Exposure time: 232 min
 Test atmosphere: dust/mist
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
 Method: OECD Test Guideline 402
 GLP: no
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.

ALCOHOL ETHOXYLATE:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
 Remarks: Based on a similar product formulation.

Acute dermal toxicity : LD 50 (Rat): 3,300 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks: Causes severe skin burns and eye damage.


Components:

ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin

		Page: 11
SAFETY DATA SHEET		Revision Date: 07/31/2015
		Print Date: 1/20/2016
		SDS Number: R0369589
HEAVY DUTY DEGREASER DEGREASER		Version: 1.1
VV890		

Remarks: Information given is based on data obtained from similar substances.

ETHYLENE GLYCOL MONOBUTYL ETHER:

Result: Irritating to skin

SODIUM METASILICATE:

Result: Corrosive to skin

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Species: Rabbit

Result: Not irritating to skin

SODIUM XYLENE SULFONATE:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Mild skin irritation

Remarks: Information given is based on data obtained from similar substances.

ALCOHOL ETHOXYLATE:

Result: Irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT:

Species: Rabbit

Result: Corrosive to eyes

Method: OECD Test Guideline 405

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

ETHYLENE GLYCOL MONOBUTYL ETHER:

Result: Irritating to eyes

SODIUM METASILICATE:

Result: Corrosive to eyes

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Result: Severely irritating to eyes

SODIUM XYLENE SULFONATE:

Species: Rabbit


Result: Irritation to eyes, reversing within 7 days

Method: OECD Test Guideline 405

GLP: yes

ALCOHOL ETHOXYLATE:

Result: Severely irritating to eyes

		Page: 12
SAFETY DATA SHEET		Revision Date: 07/31/2015
		Print Date: 1/20/2016
		SDS Number: R0369589
HEAVY DUTY DEGREASER DEGREASER		Version: 1.1
VV890		

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
 Respiratory sensitisation: Not classified based on available information.

Components:

ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT:

Test Type: Maximisation Test (GPMT)
 Species: Guinea pig
 Assessment: Did not cause sensitisation on laboratory animals.
 Method: OECD Test Guideline 406

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Test Type: Maximisation Test (GPMT)
 Species: Guinea pig
 Assessment: Does not cause skin sensitisation.
 Method: OECD Test Guideline 406

SODIUM XYLENE SULFONATE:

Test Type: Buehler Test
 Exposure routes: Dermal
 Species: Guinea pig
 Method: OECD Test Guideline 406
 Result: Does not cause skin sensitisation.
 GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:

ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT:

Genotoxicity in vitro : Test Type: Ames test
 Test species: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo : Test Type: dominant lethal test
 Test species: Mouse (male)
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:


Genotoxicity in vitro : Test Type: Ames test
 Test species: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

		Page: 13
SAFETY DATA SHEET		Revision Date: 07/31/2015
		Print Date: 1/20/2016
		SDS Number: R0369589
HEAVY DUTY DEGREASER DEGREASER		Version: 1.1
VV890		

STOT - single exposure

Not classified based on available information.

Components:

SODIUM METASILICATE:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

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

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Components:

ETHYLENE GLYCOL MONOBUTYL ETHER:

Remarks: Central nervous system

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.67 mg/l
 Exposure time: 96 h
 Test Type: static test
 Remarks: Information given is based on data obtained from similar substances.

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): 2.4 mg/l
 Exposure time: 48 h
 Test Type: static test
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : ErC50 (*Desmodesmus subspicatus* (green algae)): 127 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Remarks: Information given is based on data obtained from similar substances.

NOEC (*Desmodesmus subspicatus* (green algae)): 2.4 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to fish (Chronic toxicity) : NOEC (*Oncorhynchus mykiss* (rainbow trout)): 0.23 mg/l
 Exposure time: 72 d
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Water flea (*Ceriodaphnia dubia*)): 0.5 mg/l
 Exposure time: 7 d
 Test Type: semi-static test
 Remarks: Information given is based on data obtained from similar substances.

ETHYLENE GLYCOL MONOBUTYL ETHER:

Toxicity to fish : LC 50 (*Oncorhynchus mykiss* (rainbow trout)): 1,474 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 203

LC 50 (*Lepomis macrochirus* (Bluegill sunfish)): 1,490 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (*Daphnia magna*)): 1,550 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

Toxicity to algae : EC 50 (*Pseudokirchneriella subcapitata* (green algae)): 911 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): > 100 mg/l
 Exposure time: 21 d
 Test Type: semi-static test
 Method: OECD Test Guideline 204

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Toxicity to fish : LC 50 (Bluegill (Lepomis macrochirus)): 792 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 140 mg/l
 Exposure time: 48 h
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 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
 Test Type: flow-through test
 Method: OECD Test Guideline 210
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 25 mg/l
 Exposure time: 21 d
 Test Type: semi-static test
 Remarks: Information given is based on data obtained from similar substances.

SODIUM XYLENE SULFONATE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,020 mg/l
 Exposure time: 48 h
 Test Type: flow-through test
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 230 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to bacteria : EC10 (activated sludge): > 1,000 mg/l
 End point: Growth rate

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

Exposure time: 3 h
Test Type: Static
Method: OECD Test Guideline 209

ALCOHOL ETHOXYLATE:

Toxicity to fish : LC 50 (Pimephales promelas (fathead minnow)): 8.5 mg/l
Exposure time: 96 h
Remarks: Based on a similar product formulation.

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Daphnia (water flea)): 5.3 mg/l
Remarks: Based on a similar product formulation.

Persistence and degradability**Components:****ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT:**

Biodegradability : Result: Readily biodegradable
Biodegradation: 85 %
Exposure time: 29 d
Method: OECD Test Guideline 301B

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 10 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

Biodegradation: 90 - 100 %
Exposure time: 72 d
Method: OECD Test Guideline 301E

SODIUM XYLENE SULFONATE:

Biodegradability : Result: Readily biodegradable
Method: OECD Test Guideline 301B
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

ALCOHOL ETHOXYLATE:

Biodegradability : Remarks: Expected to be biodegradable

Bioaccumulative potential**Components:****ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT:**

Bioaccumulation : Species: Bluegill (Lepomis macrochirus)
Bioconcentration factor (BCF): 220
Exposure time: 28 d
Concentration: 0.064 mg/l
Method: Flow through

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

Partition coefficient: n-octanol/water : log Pow: 0.45

ETHYLENE GLYCOL MONOBUTYL ETHER:
 Partition coefficient: n-octanol/water : log Pow: 0.83

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:
 Partition coefficient: n-octanol/water : log Pow: < 3

Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water courses or the soil.
 Do not contaminate ponds, waterways or ditches with chemical or used container.
 Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal.
 Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

U.S. DOT - ROAD

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	--	---	----

U.S. DOT - RAIL

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	--	---	----

U.S. DOT - INLAND WATERWAYS

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	--	---	----

TRANSPORT CANADA - ROAD

UN	3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	--	---	----

TRANSPORT CANADA - RAIL

UN	3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	--	---	----

TRANSPORT CANADA - INLAND WATERWAYS

UN	3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	--	---	----

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	--	---	----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	--	---	----

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	3266	LIQUIDO CORROSIVO, BASICO, INORGANICO, N.E.P. (SODIUM METASILICATE, SODIUM HYDROXIDE)	8	II
----	------	---	---	----

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ALKYL DODECYLBENZENE SODIUM SULFONATE	68411-30-3	1000	26462.026991

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 313 Component(s)

ETHYLENE GLYCOL	111-76-2	3.70 %
MONOBUTYL ETHER		

Pennsylvania Right To Know

WATER	7732-18-5	70.00 - 90.00 %
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SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

Version: 1.1

VV890

ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT	25155-30-0	1.00 - 5.00 %
---	------------	---------------

ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1.00 - 5.00 %
---------------------------------	----------	---------------

New Jersey Right To Know

WATER	7732-18-5	70.00 - 90.00 %
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ALKYL DODECYLBENZENE SULFONIC ACID, SODIUM SALT	25155-30-0	1.00 - 5.00 %
---	------------	---------------

ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1.00 - 5.00 %
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SODIUM METASILICATE	6834-92-0	1.00 - 5.00 %
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ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT	64-02-8	1.00 - 5.00 %
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California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

FORMALDEHYDE	50-00-0
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C.I. BASIC VIOLET 10	81-88-9
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The components of this product are reported in the following inventories:

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AICS : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SAFETY DATA SHEET

Revision Date: 07/31/2015

Print Date: 1/20/2016

SDS Number: R0369589

HEAVY DUTY DEGREASER DEGREASER

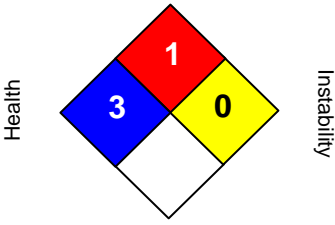
Version: 1.1

VV890

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 07/31/2015

NFPA:	HMIS III:						
<p style="text-align: center;">Flammability</p>  <p style="text-align: center;">Special hazard.</p>	<table border="1" style="width: 100%;"> <tr> <td style="background-color: blue; color: white;">HEALTH</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: red; color: white;">FLAMMABILITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: yellow;">PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	HEALTH	3	FLAMMABILITY	1	PHYSICAL HAZARD	0
HEALTH	3						
FLAMMABILITY	1						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification


Not applicable

Full text of H-Statements referred to under sections 2 and 3.

- H227 Combustible liquid.
- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H303 May be harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H313 May be harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H316 Causes mild skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H320 Causes eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

- H401 Toxic to aquatic life.
- H402 Harmful to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the Safety Data Sheet
Internal data including own and sponsored test reports

		Page: 22
SAFETY DATA SHEET		Revision Date: 07/31/2015
		Print Date: 1/20/2016
		SDS Number: R0369589
HEAVY DUTY DEGREASER DEGREASER		Version: 1.1
VV890		

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.
 Cefic, the European Chemical Industry Council.
 ESIS European Chemical Substances Information System


The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Niteo's Environmental Health and Safety Department (1-844-696-4836).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
 BEI : Biological Exposure Index
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
 FG : Food grade
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
 H-statement : Hazard Statement
 IATA : International Air Transport Association.
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
 IMDG : International Maritime Code for Dangerous Goods
 ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
 DOT : Department of Transportation
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
 HMIRC : Hazardous Materials Information Review Commission
 HMIS : Hazardous Materials Identification System
 NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration

	Page: 23
SAFETY DATA SHEET	Revision Date: 07/31/2015
	Print Date: 1/20/2016
	SDS Number: R0369589
HEAVY DUTY DEGREASER DEGREASER VV890	Version: 1.1

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System