SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier
Product Name WESTSURF 10

Recommended use of the chemical and restrictions on use
Recommended use Degreaser, water-soluble – surfactant concentrate
Restrictions on use For industrial use only

Supplier details
West Penetone Inc.
11411-160 Street
Edmonton, AB,
T5M3T7
Tel: 780-454-3919

Emergency Telephone Number
Canutec (613)-996-6666

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity, oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

Hazardous to the aquatic environment, acute hazard	Category 2
Hazardous to the aquatic environment, long-term hazard	Category 2

Label Elements

DANGER

Hazard Statements
Harmful if swallowed
Causes skin irritation
Causes serious eye damage
Toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response
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.
IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before re-use.
IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician, if you feel unwell.
Collect spillage

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
alcohols, C12-15, ethoxylated propoxylated	68551-13-3	10-30
lauramine oxide	1643-20-5	10-30
1-propoxy-2-propanol	1569-01-3	5-10
diethylene glycol monobutyl ether	112-34-5	5-10
alcohols, C8-10, ethoxylated propoxylated	68603-25-8	3-7

4. FIRST AID MEASURES

Eye contact 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.

Skin contact Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before re-use.

Inhalation If difficulties occur after mist/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion Rinse mouth. Remove person to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed by medical personnel. Call a POISON CENTER or doctor/physician if you feel concerned or unwell.

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause serious damage leading to corneal injury, irritation, discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva. Contact with skin may cause irritation with local redness. Ingestion may cause nausea, diarrhea, and abdominal cramps.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
None.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed including oxides of carbon and nitrogen.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes and clothing. Use personal protective equipment. High risk of slipping due to product leakage/spillage. Use appropriate containment to avoid environmental contamination.

Environmental Precautions
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed away from direct sunlight, away from incompatible materials.

Incompatible Materials Acids, strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1-propoxy-2-propanol 1569-01-3	TWA*: 50 ppm STEL*: 75 ppm	Not available	Not available
diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm inhalable fraction and vapor	Not available	Not available

** DOW IHG regulation*

Appropriate engineering controls

Engineering Controls Under the intended modes of use, exposure control measures are not required.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side shields or goggles.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection No personal respiratory equipment normally required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :
Clear, colorless liquid
ODOR
Alcohol
ODOR THRESHOLD :
Not applicable
pH :
7.0-8.0
MELTING POINT / FREEZING POINT :
Approx. 0ºC
BOILING POINT/BOILING RANGE :
Approx. 100ºC
FLASH POINT :
None
EVAPORATION RATE, water = 1 :
1
FLAMMABILITY (SOLID, GAS):
Not applicable
VAPOR PRESSURE, mm Hg AT 20ºC :
Not applicable
VAPOR DENSITY (Air = 1) :
Not applicable
RELATIVE DENSITY AT 20ºC:
0.975-0.980
SOLUBILITY IN WATER :
Complete
PARTITION COEFFICIENT, N-OCTANOL/WATER :
Not available
AUTO-IGNITION TEMPERATURE :
None
DECOMPOSITION TEMPERATURE:
Not available
VISCOSITY:
Not available
FLAMMABLE LIMITS :
UPPER: Not applicable **LOWER :** Not applicable

10. STABILITY AND REACTIVITY

Reactivity
Not reactive.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid
Store away from incompatible materials.

Incompatible Materials
Acids, strong oxidizing agents,

Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decompositions can lead to release of irritating gases and vapors such as oxides of carbon, nitrogen, and other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
ATE_{mix} – LD50 oral – approx. ≥1286 mg/kg (rat), LD50 dermal – approx. ≥2693 mg/kg (rat), LC50 inhalation-NOEC – approx. >21.76 mg/L – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
alcohols, C12-15, ethoxylated propoxylated 68551-13-3	1350 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
lauramine oxide 1643-20-5	>1065 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
1-propoxy-2-propanol 1569-01-3	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	8.34 mg/L (rat) – 4 h NOEC
diethylene glycol monobutyl ether 112-34-5	3384 mg/kg (rat)	2764 mg/kg (rabbit)	>2.1 mg/L (rat) – 4 h NOEC
alcohols, C8-10, ethoxylated propoxylated 68603-25-8	2368.8 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed

Information on likely sources of exposure

Serious eye damage/irritation Causes serious eye damage.
Skin corrosion/irritation Causes skin irritation.
Ingestion Expected to be a low ingestion hazard. May be harmful if swallowed.
Inhalation Expected to be a low inhalation hazard.

Delayed and immediate effects and also chronic effects from short and long-term exposure

Respiratory or skin sensitization Not a sensitizer.
Germ cell mutagenicity None known.
Carcinogenicity No information available.
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT-repeated exposure No information available.
Aspiration Hazard None.

Symptoms related to the physical, chemical and toxicological characteristics
May cause serious eye damage. Skin irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity
If available, ecotoxicity values of individual components are shown below.

Chemical Name	Fish	Waterflea	Algae
lauramine oxide 1643-20-5	2.67 mg/L: 96 h LC50	3.1 mg/L: 48 h Daphnia magna EC50	0.19 mg/L: 72 h EC50
1-propoxy-2-propanol 1569-01-3	>100 mg/L: 96 h oncorhynchus mykiss LC50	>100 mg/L: 48 h Daphnia magna EC50	1466 mg/L: 96 h green algae ErC50

Persistence and degradability
Expected to be potentially biodegradable

Bioaccumulative potential
Accumulation in organisms is not to be expected.

Mobility in soil
No information available

Other adverse effects
Do not release untreated into natural waters. No other adverse environmental effects are expected.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

TDG classification

UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S. (contains amine oxide), Class 9, PG III

15. REGULATORY INFORMATION

All ingredients are listed on the DSL

16. OTHER INFORMATION

Preparation Date 11 October, 2016
Revision Date 23 November, 2017
Revision Note Adjustment to Section 2 and Section 11 – updates in raw material information and hazard classifications.

Disclaimer
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End of SDS