SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier
Product Name HD-2

Recommended use of the chemical and restrictions on use
Recommended use Degreaser
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

Flammable liquids	Category 3

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity – single exposure	Category 3
Aspiration hazard	Category 1

Hazardous to the aquatic environment, acute hazard	Category 2

Label Elements

DANGER

Hazard Statements
Flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
May cause respiratory irritation
May be fatal if swallowed and enters airways
Toxic to aquatic life

Precautionary Statements – Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/hot surfaces/open flame and other ignition sources. No smoking.
Keep container tightly closed.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash face, hands and any exposed skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
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.
If eye irritation persists, get medical advice/attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: get medical advice/attention. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
If exposed or concerned: get medical advice/attention.
In case of fire: Use carbon dioxide, foam or dry chemical to extinguish.

Precautionary Statements - Storage
Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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 %
solvent naphtha (petroleum) light aromatic	64742-95-6	60-100
alcohols (C12-C15 ln. saturated) ethoxylate	68131-39-5	1-5
triethanolamine dodecylbenzene sulfonate	27323-41-7	1-5
calcium dodecylbenzene sulfonate	26264-06-2	0.5-1.5
sodium hydroxide	1310-73-2	0.1-1.0

4. FIRST AID MEASURES

Eye contact Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

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

Inhalation If difficulties occur after mist/vapors/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. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause serious eye 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. Inhalation of mist/vapors/spray may cause respiratory tract irritation leading to a temporary burning sensation of the nose and throat, coughing, and difficulty breathing. High concentrations may cause central nervous system depression leading to headaches, dizziness, and nausea. Ingestion may cause irritation or a burning sensation of the mouth and throat and abdominal pain or pneumonitis if aspirated.

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
High-volume water jet.

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

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
Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions
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. Following product recovery, flush area with plenty of water. 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. Ensure thorough ventilation of work areas.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place, 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
solvent naphtha (petroleum) light aromatic 64742-95-6	Not available	TWA: 500 ppm/2000mg/m^3	Not available
sodium hydroxide 1310-73-2	2 mg/m^3 ceiling	2 mg/m^3 ceiling	10 mg/m^3

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eye wash facilities must be made available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side shields or goggles. Face shield where handling may produce splashing hazards.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release.

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, yellow liquid
ODOR
Solvent
ODOR THRESHOLD :
Approx. 2 ppm
pH :
Not applicable
MELTING POINT / FREEZING POINT :
Approx. -14ºC
BOILING POINT/BOILING RANGE :
Approx. 160-170ºC
FLASH POINT :
41ºC (TCC)
EVAPORATION RATE, water = 1 :
>1
FLAMMABILITY (SOLID, GAS):
Not applicable

VAPOR PRESSURE, mm Hg AT 20ºC :
Approx. 2.0
VAPOR DENSITY (Air = 1) :
Approx. 4
RELATIVE DENSITY AT 20ºC:
0.870-0.880
SOLUBILITY IN WATER :
Forms emulsion
PARTITION COEFFICIENT, N-OCTANOL/WATER :
Not available
AUTO-IGNITION TEMPERATURE :
Approx. 479ºC
DECOMPOSITION TEMPERATURE:
Not available
VISCOSITY:
Approx. 0.7 mPa/S at 38ºC
FLAMMABLE LIMITS :
UPPER: 0.9% **LOWER :** 6%

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
Avoid all sources of ignition: heat/open flame/hot surfaces. Store away from incompatible materials.

Incompatible Materials
Acids, strong oxidizing materials.

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity
ATE_{mix} – LD50 oral – approx. ≥ 4276 mg/kg (rat), LD50 dermal – approx. > 9542 mg/kg (rabbit), LC50 inhalation – approx. >4045 ppm – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
solvent naphtha (petroleum) light aromatic 64742-95-6	5000 mg/kg (rat)	14000 mg/kg (rabbit)	>3670 ppm (rat) – 4 h
alcohols, C12-C15, ethoxylated 68131-39-5	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
triethanolamine dodecylbenzene sulfonate 27323-41-7	500-2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
calcium dodecylbenzene sulfonate 26264-06-2	1300 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
sodium hydroxide 1310-73-2	500 mg/kg (rabbit)	Not listed	Not listed

Information on likely sources of exposure

Inhalation May cause respiratory irritation and possible damage.
Serious eye damage/irritation Causes serious eye irritation.
Skin corrosion/irritation Causes skin irritation.
Ingestion May be harmful if swallowed.

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

Respiratory or skin sensitization	Not a sensitizer.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	(CAS 64742-95-6)	2 Contains ingredient suspected of causing cancer (cumeme CAS 98-82-8)
Reproductive toxicity	No information available.	
STOT - single exposure	solvent naphtha (petroleum) light aromatic (CAS 64742-95-6)	3 May cause respiratory irritation
STOT - repeated exposure	No information available.	
Aspiration Hazard	solvent naphtha (petroleum) light aromatic (CAS 64742-95-6)	1 May be fatal if swallowed and enters airways

Symptoms related to the physical, chemical and toxicological characteristics
See Section 2 & 4.

12. ECOLOGICAL INFORMATION

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

Chemical Name	Fish	Waterflea	Algae
solvent naphtha (petroleum) light aromatic 64742-95-6	9.22 mg/L: 96 h rainbow trout LC50	Not available	Not available
alcohols, C12-C15, ethoxylated 68131-39-5	5-10 mg/L: 96 h LC50	5-10 mg/L: 48 h EC50	10-100 mg/L: 72 h EC50
triethanolamine dodecylbenzene sulfonate 27323-41-7	6 mg/L: 96 h LC50	6.9 mg/L: 48 h Daphnia magna EC50	50-100 mg/L: 72 h EC50
calcium dodecylbenzene sulfonate 26264-06-2	20 mg/L: 96 h LC50	2.2-15 mg/L: 48 h EC50	1.25-75 mg/L: EC50
sodium hydroxide 1310-73-2	1149 mg/kg: 96 h rainbow trout LC50	Not available	Not available

Persistence and degradability
Expected to be readily 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 1268, Petroleum Distillates, N.O.S., Class 3, PG III

15. REGULATORY INFORMATION

All ingredients are listed on the DSL

16. OTHER INFORMATION

Preparation Date 3 October, 2016
Revision Date **16** November, 2017
Revision Note Adjustments to Section 2 and Section 11 – updates in raw material information

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS