SAFETY DATA SHEET

1. IDENTIFICATION

ProductIdentifier
Product Name ROC 60VP US
Chemical Name Surfactant/triazine-type cleaner and gas freeing aid

Recommended useofthe chemicaland restrictionson use
Recommended use High-temperature enclosed space cleaning and gas freeing
Restrictions on use For industrial use only

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

EmergencyTelephoneNumber

Canutec (613)-996-6666 or 1-888-226-8832 – FOR 24 HOUR TRANSPORT EMERGENCY WITHIN CANADA Chemtrec 1-800-424-9300 – FOR 24 HOUR TRANSPORT EMERGENCY WITHIN USA

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids	Category 4

Skin corrosion/irritation	Category 1C
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1B
Specific target organ toxicity – single exposure	Category 3
Specific target organ toxicity – repeated exposure	Category 2

Hazardous to the aquatic environment, acute hazard	Category 2

Label Elements

DANGER

Hazard Statements
Combustible liquid
Causes severe skin burns and eye damage
May cause an allergic skin reaction
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure
Toxic to aquatic life

PrecautionaryStatements-Prevention
Keep away from heat, hot surfaces, sparks, open flame and other ignition sources.
No smoking. Keep container tightly closed.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash face, hands and any exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

PrecautionaryStatements-Response
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
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 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.

PrecautionaryStatements-Storage
Store in a well ventilated place. Keep container tightly closed. Store locked up.

PrecautionaryStatements-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 %
1,3,4-triazine, hexahydro-1,3,5-trimethyl-	108-74-7	10-30
alcohols, C9-C11, ethoxylated	68439-46-3	5-10
lauramine	1643-20-5	5-10
morpholine	110-91-8	1-5

4. FIRST AID MEASURES

Ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Skin contact Wash with plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs, get medical advice/attention. Take off immediately all contaminated clothing and wash it before re-use.

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.

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.

Mostimportantsymptomsandeffects,bothacuteanddelayed

Contact with eyes may cause serious eye damage leading to stinging, tearing, and blurred vision with marked excess redness and swelling of the conjunctiva. Permanent eye damage including blindness could result. Contact with skin may cause local burns or lesions and cause sensitization with prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. 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.

Indicationofany immediatemedicalattentionandspecialtreatmentneeded

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

SuitableExtinguishingMedia
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

UnsuitableExtinguishingMedia
None.

Specifichazardsarisingfrom the chemical
During fire, gases hazardous to health may be formed including oxides of carbon and nitrogen.

ProtectiveEquipmentandPrecautionsfor 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

Personalprecautions,protectiveequipmentand emergencyprocedures
Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment. High risk of slipping due to product leakage/spillage.

EnvironmentalPrecautions
Avoid discharge into drains/surface waters/groundwater.

Methodsand materialforcontainmentand cleaningup
Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, dike, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE

Precautionsfor SafeHandling

Handling Avoid contact and inhalation of mist/vapors/spray. Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas. Use recommended personal protective equipment.

Conditionsfor safestorage,includingany 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, oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Controlparameters

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
morpholine 110-91-8	TWA: 20 ppm	20 ppm/70 mg/m³	Not listed

Appropriateengineeringcontrols

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash facilities and emergency shower must be made available when handling this product.

Individualprotectionmeasures,suchaspersonalprotectiveequipment

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, blue liquid
ODOR:
Amine
ODOR THRESHOLD:
Not applicable
pH :
10.0-11.0
MELTING POINT / FREEZING POINT :
Approx. 0ºC (32ºF)
BOILING POINT/BOILING RANGE :
Not available
FLASH POINT:
Approx. 67ºC / 153ºF (TCC), 107ºC / 225ºF (COC)
EVAPORATION RATE, water = 1 :
Approx. 1
FLAMMABILITY (SOLID, GAS) :
Not applicable
VAPOR PRESSURE, mm Hg AT 20ºC (68ºF):
Not available
VAPOR DENSITY (Air = 1) :
Not available
RELATIVE DENSITY AT 20ºC (68ºF):
0.980
SOLUBILITY IN WATER :
Complete
PARTITION COEFFICIENT, N-OCTANOL/WATER :
Not available
AUTO-IGNITION TEMPERATURE :
Not available
DECOMPOSITION TEMPERATURE:
Not available
VISCOSITY:
Not available
FLAMMABLE LIMITS:
UPPER: Not available LOWER: Not available

10. STABILITY AND REACTIVITY

Reactivity
Not reactive.

ChemicalStability
Stable under normal conditions.

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

ConditionstoAvoid
Store away from incompatible materials.

IncompatibleMaterials
Strong oxidizing materials, acids, amphoteric or light metals.

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 and nitrogen as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acutetoxicity
$\underline{ATE_{mix}}$ – LD50 oral – approx. $\geq$2310 mg/kg (rat), LD50 dermal – approx. $\geq$4890 mg/kg (rabbit)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,3,4-triazine, hexahydro-1,3,5-trimethyl-	500 mg/kg (rat)	Not listed	Not listed
alcohols, C9-C11, ethoxylated	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
lauramine oxide	>1065 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
morpholine 110-91-8	1910 mg/kg (rat)	500 mg/kg (rabbit)	Not listed

Informationon likely sourcesofexposure

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

Delayedand immediateeffectsand alsochroniceffectsfrom shortand long-termexposure

Respiratory or skin sensitization	1,3,5-triazine, hexahydro-1,3,5-trimethyl- (CAS 108-74-7) - 1B May cause an allergic skin reaction
Germ cell mutagenicity	No information available.
Carcinogenicity	Morpholine (CAS 110-91-8) - under certain conditions, forms nitrosamines, an animal study carcinogen
Reproductive toxicity	1,3,5-triazine, hexahydro-1,3,5-trimethyl- (CAS 108-74-7) – OECD 422 oral rat NOAEL >100 mg/L, 28 d STOT - single exposure No information available
STOT - repeated exposure	1,3,5-triazine, hexahydro-1,3,5-trimethyl- (CAS 108-74-7) – respiratory tract irritant
Aspiration Hazard	None.

Symptomsrelatedto the physical,chemicalandtoxicologicalcharacteristics
Skin and eye irritation and possible damage. Ingestion may cause irritation or burns of mouth, esophagus and stomach, abdominal pain, nausea, vomiting, and diarrhea. Inhalation may cause irritation of nose, mouth, and upper respiratory tract, coughing, and difficulty breathing.

12. ECOLOGICAL INFORMATION

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

Chemical Name	Fish	Waterfle	Algae
1,3,4-triazine, hexahydro-1,3,5-trimethyl-	>1.908 mg/L: 96 h LC50	20.352 mg/L: 48 h LC50	1.145 mg/L: 72 h EC50
alcohols, C9-C11, ethoxylated	5-10 mg/L: 96 h LC50	5-10 mg/L: 48 h EC50	10-100 mg/L: 72 h EC50
lauramine oxide	2.67 mg/L: 96 h LC50	3.1 mg/L: 48 h Daphnia magna	0.19 mg/L: 72 h EC50
morpholine 110-91-8	180 mg/L: 96 h salmo gairdneri, syn. O.	45 mg/L: 48 h Daphnia magna	28 mg/L: 96 h EC50

Persistenceanddegradability
Expected to be potentially biodegradable.

Bioaccumulative potential
Accumulation in organisms is not to be expected.

Mobility insoil
No information available

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

13. DISPOSAL CONSIDERATIONS

WasteDisposalMethod Dispose of in accordance with local regulations.

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

14. TRANSPORT INFORMATION

UN Number: UN3267
Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., (triazines)
Hazard Class(es)
Class: TDG: 8
US DOT: 8
IMDG: 8
Label(s): Corrosive
Packing Group: III
Marine Pollutant: No

Special precautions for user: None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not determined

15. REGULATORY INFORMATION

Canada (DSL/NDSL)
All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

SARA 311/312 REPORTABLE HAZARD CATEGORIES: Immediate (Acute) Health

REPORTING REQUIREMENTS (all quantities in pounds)

Component	CAS / 313 Code	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	CAA 112(r) TQ	CWA / OPA
no component is subject to reporting requirements							

HMIS Information:

Health:	1
Flammability:	2
Reactivity:	0

16. OTHER INFORMATION

PreparationDate	October 28, 2019
RevisionDate	August 20, 2020
RevisionNote	Revision 4 - Adjustments to Section 15, addition of reporting requirements

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.

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR SALES ENGINEER
FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 780-454-3919

End of SDS