

1. IDENTIFICATION

Product Identifier

Product Name METASOL

Recommended use of the chemical and restrictions on use

Recommended use Cleaner – commercial, industrial
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

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Hazardous to the aquatic environment, acute hazard	Category 3

Label Elements

DANGER

Hazard Statements

May be corrosive to metals
 Causes severe skin burns and eye damage
 Harmful to aquatic life



Precautionary Statements - Prevention

Keep only in original packaging.
 Do not breathe dusts or mists.
 Wash face, hands and any exposed skin thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Avoid release to the environment.

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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
 Absorb spillage to prevent material-damage

Precautionary Statements - Storage

Store in a corrosion resistant/container with a resistant inner liner. 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 %*
sodium metasilicate	6834-92-0	1-5
diethylene glycol monobutyl ether	112-34-5	1-5
sodium dodecylbenzene sulfonate	25155-30-0	1-5
tetrasodium ethylenediaminetetraacetate	64-02-8	1-5
sodium lauryl ether sulphate	9004-82-4	1-5
sodium hydroxide	1310-73-2	0.1-1.0

* The exact percentage (concentration) of composition has been withheld as a trade secret.

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	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
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 corneal injury or damage leading to irritation, discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva. Contact with skin may cause burns or irritation with local redness or blistering.

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, nitrogen, and 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**

Use personal protective equipment. Use appropriate containment to avoid environmental contamination.

Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Contain and solidify with inert absorbent materials. Keep in suitable, closed containers for disposal. Following product recovery, flush area with 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, eyes, and clothing.

Conditions for safe storage, including any incompatibilities

Storage Store locked up away from incompatible materials.

Incompatible Materials Strong oxidizing materials, acids, amphoteric or light metals

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
sodium metasilicate 6834-92-0	TWA: 2 mg/m ³	Not available	Not available
diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm	Not available	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 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 when handling the product at full concentration.

Skin and body protection Wear protective gloves and protective clothing when handling the product at full concentration.

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 to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :

Clear, red liquid

ODOR

Detergent

ODOR THRESHOLD :

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C :

Not applicable

VAPOR DENSITY (Air = 1) :

Not applicable

RELATIVE DENSITY AT 20°C:

1.075-1.085

pH :
12.5-13.5

MELTING POINT / FREEZING POINT :
Approx. -15°C

BOILING POINT/BOILING RANGE :
Approx. 100°C

FLASH POINT :
None

EVAPORATION RATE, water = 1 :
1

FLAMMABILITY (SOLID, GAS):
Not applicable

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

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, nitrogen, and sulfur as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium metasilicate 6834-92-0	600 mg/kg (rat)	Not listed	Not listed
diethylene glycol monobutyl ether 112-34-5	2410 mg/kg (mouse)	2764 mg/kg (rabbit)	>2.1 mg/L (rat) – 4 h
sodium dodecylbenzene sulfonate 25155-30-0	500-2000 mg/kg (rat)	Not listed	Not listed
tetrasodium ethylenediaminetetraacetate 64-02-8	>1780-<2000 mg/kg (rat)	Not listed	>1 mg/L (aerosol) (rat) – 6 h
sodium lauryl ether sulphate 9004-82-4	>2000 mg/kg (rat)	2000-5000 mg/kg (rabbit)	Not listed
sodium hydroxide 1310-73-2	500 mg/kg (rabbit)	Not listed	Not listed

Information on likely sources of exposure

Serious eye damage/irritation Causes serious eye damage.
Skin corrosion/irritation May cause burns or irritation with local redness or blistering.
Ingestion Expected to be a low ingestion hazard.
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

Eye damage or irritation. Skin burns or irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Chemical Name	Fish	Waterflea	Algae
diethylene glycol monobutyl ether 112-34-5	1300 mg/L: 96 h lepomis macrochirus LC50	Not available	>100 mg/L: 96 h desmodesmus subspicatus EC50
sodium dodecylbenzene sulfonate 25155-30-0	3.2-5.6 mg/L: 96 h rainbow trout LC50	6.3 mg/L: 48 h daphnia magna EC50	Not available
tetrasodium ethylenediaminetetraacetate 64-02-8	>100 mg/L: 96 h lepomis macrochirus LC50	>100 mg/L: 48 h daphnia magna EC50	>100 mg/L: 72 h green algae EC50
sodium lauryl ether sulphate 9004-82-4	2.3 mg/L: 96 h LC50	>13 ppm: 48 h LC50	>56 ppm: 72 h EC50
sodium hydroxide 1310-73-2	1149 mg/kg: 96 h rainbow trout LC50	Not available	Not available

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 3266, Corrosive Liquid, Basic, Inorganic, N.O.S. (sodium metasilicate solution), Class 8, PG III

15. REGULATORY INFORMATION

All ingredients are listed on the DSL

16. OTHER INFORMATION

Preparation Date

26 April, 2016

Revision Date

not applicable

Revision Note

not applicable

Disclaimer

The information provided on this MSDS 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