

Safety Data Sheet  
Noble Technologies Inc.

---

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Noble 1
Recommended use of the chemical:	Water treatment coagulant
Manufacturer:	Noble Technologies, Inc. 5217 High Vista Dr. Orefield, PA, USA 18069
Emergency Phone Number:	484 538 5502

---

2. Composition

CAS No.	
Proprietary	Contains water soluble aluminum compounds

---

3. Hazards identification

USA OSHA inhalation hazard. Contains water soluble aluminum compounds. Exposure limit is 2 MG/M3 as Al for soluble aluminum salts.

Product is an eye irritant.

---

4. First Aid

General Information:	Eyewash station should be available if there is a risk of eye contact.
Inhalation:	Inhalation can cause dryness and distress. If inhaled as a mist, remove to fresh air. Obtain medical attention for distress.
Skin:	Single, short exposure causes no known adverse effect. Repeated exposure may cause irritation. Flush with clean water, wash with soap and water.
Eye:	Contact with eye may cause redness and swelling due to the astringent properties of the product. Flush immediately with clean water for 15 minutes.  Obtain immediate medical attention.
Oral:	Swallowing large amounts may cause gastrointestinal discomfort. Small amounts transferred during use should not cause injury.  Obtain medical attention if large amounts are swallowed or there is discomfort.

---

5. Fire Fighting Measures

Suitable extinguishing agents:	Product is not flammable. Containers may be sprayed with water or water-based agents.
For safety reasons unsuitable extinguishing agents:	None known.
Special hazards:	On heating, product may form acid-chloride gases.
Protective equipment:	Full protective gear and self-contained breathing apparatus (SCBA) for industrial fires.

---

6. Accidental Release Measures

Person-related safety precautions:	Mist in air is an inhalation hazard and an eye contact hazard. Product can also irritate the skin on long exposure or according to a person's individual sensitivity.
Measures for cleaning/collection:	Product could be recovered using absorbent material. Product is water-soluble but will form a solid /gel on drying. Product reacts with soaps forming a hydroxide gel. Clean area with clear water.

D.O.T. Spill reporting Information: Hazardous substance: None          Reportable Quantity: None

---

7. Handling and Storage

Handling:

Information for safe handling:          Avoid creating mist that will be a health and exposure hazard.  
Information about protection against explosion and fires: Product is not flammable or explosive.

Storage:

Requirements to be met by storerooms and containers: 10 to 49C.

Information about storage in one common storage facility:	No restrictions.
---	------------------

Maximum storage temperature:	49C
Storage class:	Information not available.

Class according to regulation on inflammable liquids:	No restrictions.
---	------------------

8. Exposure Controls and Personal Protection

Additional information about design of technical systems:

Components with critical values that require monitoring at the workplace: If mist in air is above TLV, proper respiratory protection should be provided.

Personal protective equipment:

General protective and hygienic measures: Avoid exposure to mist in the air, contact with eyes or excessive skin contact.  
Breathing equipment: Mist mask if TLV is exceeded.  
Protection of hands: Impervious gloves if contact is excessive.  
Eye protection: Safety glasses at a minimum, goggles for risk of exposure.  
Body protection: Work uniforms should be adequate.

---

9. Physical and Chemical Properties

Form, color and smell: Liquid, clear and colorless to amber, with a slight, astringent odor.

Change in condition:

Melting point/melting range: 0 to -5C  
Boiling point/boiling range: Water will boil off at 100C at 760 mm Hg  
Flash point: None, product is not flammable.

Inflammability (solid, gaseous)

Ignition temperature: None, product is not flammable.  
Decomposition temperature: Decomposition will begin at temperatures in excess of 100C.  
Self-inflammability: None, product is not flammable.  
Danger of explosion: None, product or mist from product will not support combustion.  
Density: 1.2 g/cc at 25C

Solubility in/miscibility with:

Water: Miscible  
Non-polar solvents: Soluble in alcohols and glycols.  
pH value: Approximately 4 in a 30g/100 aqueous solution.  
Additional information: None.

---

10. Stability and Reactivity

Thermal decomposition/conditions to be avoided: Heat in excess of 90C for long periods of time.  
Materials to be avoided: Caustics will form Aluminum Hydroxides.  
Dangerous reactions: None known.  
Dangerous products of decomposition: Acid Chloride, as HCl can form if product decomposes.

11. Toxicological Information

Acute toxicity: Product is an acute irritant to eyes or, as a mist, to the respiratory system.  
Specific symptoms in biological assay: Information not known.

Primary irritant effect:

On the skin: Can cause irritation on prolonged exposure.  
On the eye: Immediately causes irritation, redness and swelling.  
Sensitization: Persons can be or become sensitized to this product.

Other information (experimental toxicology):

Subacute to chronic toxicity: Mist can damage the respiratory system on long-term exposure.  
Additional toxicological information: None.

---

12. Ecological Information

Information about elimination (persistence and degradability): Information not known.  
Behavior in environmental systems: Information not known.  
Components: Water soluble aluminum compound and Water.  
Mobility and bioaccumulation potential: Information not known.  
Other information: Product is water miscible.  
Ecotoxicological effects: Information not known.  
Aquatic toxicity: Information not known.  
Type of test/Effective concentration method assessment: Product can be determined by % Al to ppm range.  
Additional ecological information: Information not available.

According to raw materials/assay, contains the following heavy metals and compounds: May contain no more than 5 ppm total heavy metals.

---

13. Disposal Considerations

Product: Water soluble aluminum compounds  
Waste disposal key numbers: Information not known.  
Uncleaned packagings: Information not known.  
Recommended Cleaning agent: Remove as dry material or wash with clear water.

14. Transport Information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic):

ADR/RID-GGVS/E Class:

Number/Letter:	Information not known.
Kemler Number:	Information not known.
UN-number:	None assigned.
Designation of goods:	Information not known.
Remarks:	This is not a hazardous material for transportation as defined by USA Dept. of Transportation.

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:	Information not known.
Page:	Information not known.
UN Number:	None assigned.
Packaging group:	None assigned.
EMS Number:	Information not known.

MFAG:

Marine pollutant:	Information not known.
Correct technical name:	
Remarks:	None.

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:	Information not known.
UN/ID Number:	None assigned.
Packaging group:	None assigned.
Correct technical name:	
Remarks:	None.

---

15. Regulatory Information

Designation according to EC guidelines:

Code letter and hazard designation of product:	Information not known.
Risk phrases:	Exposure limit TLV: 2 Mg/M3 as Al.
Safety phrases:	Avoid eye contact and inhalation of dust.
Special designation of certain preparations:	Information not known.

National regulations:

Additional classification according to Decree on Hazardous Materials, Annex II:

Information about limitation of use:	Maximum percent in a formulation may be limited.
Decree to be applied in case of technical fault:	Information not known.
Classification according to VbF:	Information not known.
Technical instructions (air):	Information not known.
Class Share in %:	Information not known.
Water hazard class:	Information not known.
Other regulations, limitations and prohibitive regulations:	Information not known
NFPA Hazard Classification:	Health: 2      Flammability: 0      Reactivity: 0

---

16. Other Information

SDS updated May 2015 by Noble Technologies, Inc.

This information is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.