

COMPANY IDENTITY: Noble Company  
 PRODUCT IDENTITY: NOBURST AL CONCENTRATE

SDS DATA: 04/22/2022  
 REPLACES: 03/01/2015

## SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements of the Global Harmonizing System.  
 THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
 IMPORTANT: Read this SDS before handling & disposing of this product.  
 Pass this information on to employees, customers, & users of this product.

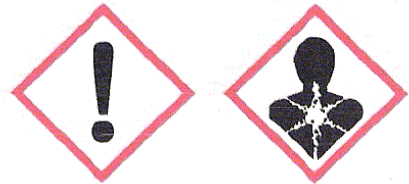
### SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: NOBURST AL CONCENTRATE  
 PRODUCT USES: Freeze Protection

COMPANY IDENTITY: Noble Company  
 COMPANY ADDRESS: 7300 Enterprise Dr.  
 COMPANY CITY: Spring Lake, MI 49456  
 COMPANY PHONE: 1-231-799-8000  
 EMERGENCY PHONES: 1-800-878-5788

### SECTION 2. HAZARDS IDENTIFICATION

#### WARNING!!



#### 2.1 HAZARD STATEMENTS: (CAT = Hazard Category)

(H300s) HEALTH: Acute Toxicity, Oral(CAT:5)  
**H303 MAY BE HARMFUL IF SWALLOWED.**  
 (H300s) HEALTH: Skin Corrosion/Irritation(CAT:2)  
**H315 CAUSES SKIN IRRITATION.**  
 (H300s) HEALTH: Serious Eye Damage/Eye Irritation(CAT:2A)  
**H319 CAUSES SERIOUS EYE IRRITATION.**  
 (H300s) HEALTH: Acute Toxicity, Inhalation(CAT:4)  
**H332 HARMFUL IF INHALED.**

#### 2.2 PRECAUTIONARY STATEMENTS:

**P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal**  
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
 P262 Do not get in eyes, on skin, or on clothing.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+352 IF ON SKIN: Wash with plenty of soap and water.  
 P314 Get medical advice/attention if you feel unwell.  
 P332+313 IF SKIN irritation occurs: Get medical advice/attention.

**SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.**

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT %
Propylene Glycol	57-55-6	200-338-0	85-95
2-Ethylhexanoic Acid	149-57-5	-	5-10
Sodium Hydroxide	1310-73-2	215-185-5	0- 1
Sodium Tolyltriazole	64665-57-2	-	0- 1
Sodium Nitrite	7632-00-0	-	0- 5

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1).

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

PRODUCT IDENTITY: NOBURST AL CONCENTRATE

REPLACES: 03/01/2015

#### SECTION 4. FIRST AID MEASURES

- 4.1 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & CHRONIC:  
See Section 11 for Symptoms/Effects (acute & chronic).
- 4.2 EYE CONTACT:  
For eyes, flush with plenty of water for 15 minutes & get medical attention.
- 4.3 SKIN CONTACT:  
In case of contact with skin immediately remove contaminated clothing.  
Wash with soap & water.
- 4.4 INHALATION:  
If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Seek medical attention if breathing becomes difficult or respiratory irritation persists.
- 4.5 SWALLOWING:  
Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting.  
GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

#### SECTION 5. FIRE FIGHTING MEASURES

- 5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:  
NO open flames. Above flash point, use a closed system, ventilation,
- 5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:  
Use dry powder, alcohol-resistant foam, water spray, carbon dioxide.
- 5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:  
Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.  
Do not enter confined fire-space without full bunker gear.  
(Helmet with face shield, bunker coats, gloves & rubber boots).
- 5.4 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:  
SLIGHTLY COMBUSTIBLE!  
Isolate from oxidizers, heat, & open flame.  
Closed containers may explode if exposed to extreme heat.  
Applying to hot surfaces requires special precautions.  
Continue all label precautions!

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:  
Keep unprotected personnel away.  
Use complete chemical protective suit with self-contained breathing apparatus.
- 6.2 ENVIRONMENTAL PRECAUTIONS:  
Keep from entering storm sewers and ditches which lead to waterways.
- 6.3 METHODS & MATERIAL FOR CONTAINMENT & CLEAN-UP:  
Stop spill at source. Dike and contain.  
Sweep spilled material into dry, sealable containers.  
Wash away remainder with plenty of water.

#### SECTION 7. HANDLING AND STORAGE

- 7.1 PRECAUTIONS FOR SAFE HANDLING:  
Isolate from oxidizers, heat, & open flame. Avoid prolonged or repeated Avoid prolonged or repeated contact. Consult Safety Equipment Supplier. Avoid free fall of liquid.  
Ground containers when transferring. Do not flame cut, braze, or weld. Continue all label precautions! NEVER pour water into this substance. When dissolving or diluting, always add it slowly to the water.
- 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:  
Keep separated from strong oxidants, strong acids, metals, food & feedstuffs.  
Keep dry. Use ventilation along the floor. Do not store above 49 C/120 F.  
Keep container tightly closed & upright when not in use to prevent leakage.

COMPANY IDENTITY: Noble Company  
 PRODUCT IDENTITY: NOBURST AL CONCENTRATE

SDS DATA: 04/22/2022  
 REPLACES: 03/01/2015

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 EXPOSURE LIMITS:

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Propylene Glycol	57-55-6	200-338-0	None Known	1000 ppm
Sodium Nitrite	7632-00-0	-	None Known	None Known
Sodium Hydroxide	1310-73-2	215-185-5	None Known	None Known
Sodium Tolyltriazole	64665-57-2	-	None Known	None Known
Sodium Nitrite	7632-00-0	-	None Known	None Known

MATERIAL	CAS#	EINECS#	CEILING	STEL (OSHA/ACGIH)	HAP
Sodium Hydroxide	1310-73-2	215-185-5	2 ppm	None Known	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

### 8.2 APPROPRIATE ENGINEERING CONTROLS:

#### RESPIRATORY EXPOSURE CONTROLS

Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations, after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown. Maintain airborne contaminant concentrations below exposure limits. If adequate ventilation is not available or there is potential for airborne exposure above the exposure limits, a respirator may be worn up to the respirator exposure limitations, check with respirator equipment manufacturer's recommendations/limitations. For particulates, a particulate respirator (NIOSH Type N95 or better filters) may be worn. If oil particles (such as: lubricants, cutting fluids, glycerine, and so on) are present, use a NIOSH Type R or P filter. For a higher level of protection, use positive pressure supplied air respiration protection or Self-Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

#### EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS

Positive pressure, full-face piece Self-Contained Breathing Apparatus; or positive pressure, full-face piece Self-Contained Breathing Apparatus with an auxiliary positive pressure Self-Contained Breathing Apparatus.

#### VENTILATION

LOCAL EXHAUST: Necessary                      MECHANICAL (GENERAL): Necessary  
 SPECIAL: None                                      OTHER: None  
 Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

### 8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

#### EYE PROTECTION:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, chemical splash goggles should be worn, when a higher degree of protection is necessary, use splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

#### HAND PROTECTION:

Use gloves chemically resistant to this material. Glove must be inspected prior to use. Preferred examples: Butyl rubber, Chlorinated Polyethylene, Polyethylene, Ethyl vinyl alcohol laminate ("EVAL"), Polyvinyl alcohol ("PVA"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber ("nitrile") or ("NBR"), Polyvinyl chloride ("PVC") or "vinyl", Viton. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good practices. Wash and dry hands.

#### BODY PROTECTION:

Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from impervious materials are generally acceptable, depending on the task.

COMPANY IDENTITY: Noble Company  
 PRODUCT IDENTITY: NOBURST AL CONCENTRATE

SDS DATA: 04/22/2022  
 REPLACES: 03/01/2015

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

### WORK & HYGIENIC PRACTICES:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using toilet facilities and at the end of the working period. Provide readily accessible eye wash stations & safety showers. Remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Orange
ODOR:	None
ODOR THRESHOLD:	Not Available
pH (Neutrality):	8.3
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP,50%,Dry Point):	111 160 187* C / 232 320 369* F (*=End Point)
FLASH POINT (TEST METHOD):	107 C / 225 F (COC)
EVAPORATION RATE (n-Butyl Acetate=1):	Not Applicable
FLAMMABILITY CLASSIFICATION:	Class IIIB
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	2.6 (Lowest Component)
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 C	11.1
VAPOR DENSITY (air=1):	1.4
GRAVITY @ 68/68 F / 20/20 C:	
DENSITY:	1.037
SPECIFIC GRAVITY (Water=1):	1.039
POUNDS/GALLON:	8.654
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	421 C / 790 F
DECOMPOSITION TEMPERATURE:	Not Available
TOTAL VOC'S (TVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	0.0
VISCOSITY @ 20 C (ASTM D445):	Not Available

\* Using CARB (California Air Resources Board Rules).

## SECTION 10. STABILITY & REACTIVITY

### 10.1 REACTIVITY & CHEMICAL STABILITY:

Stable under normal conditions, no hazardous reactions when kept from incompatibles.

### 10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:

Isolate from oxidizers, heat, & open flame.

### 10.3 INCOMPATIBLE MATERIALS:

Reacts violently with fire extinguishers containing water.  
 The substance is a strong base, reacts violently with acids and is corrosive.  
 Reacts with water generating sufficient heat to ignite combustible materials.  
 Reacts violently with strong oxidants, strong acids,  
 causing fire & explosion hazard. Attacks many plastics, rubber, coatings,  
 many metals, such as aluminum, zinc, tin, & lead.  
 forming flammable/explosive gas (hydrogen) .  
 Reacts with ammonium salts to produce ammonia & causing fire hazard.  
 Rapidly absorbs carbon dioxide & water from the air.  
 Contact with moisture will generate heat.

### 10.4 HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide, Carbon Dioxide from burning.

### 10.5 HAZARDOUS POLYMERIZATION:

Will not occur.

COMPANY IDENTITY: Noble Company  
 PRODUCT IDENTITY: NOBURST AL CONCENTRATE

SDS DATA: 04/22/2022  
 REPLACES: 03/01/2015

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 ACUTE HAZARDS

#### 11.11 EYE & SKIN CONTACT:

Acute overexposure can cause irritation to skin.  
 Acute overexposure can cause irritation to eyes.  
 Liquid can cause eye irritation. Wash thoroughly after handling.

#### 11.12 INHALATION:

Irritation of the nose and throat, headache, dizziness, and nausea.

#### 11.13 SWALLOWING:

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

### 11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing disorders of any target organs mentioned in this Document can be aggravated by over-exposure by routes of entry to components of this product. Persons with these disorders should avoid use of this product.

### 11.3 CHRONIC HAZARDS

#### 11.31 CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

11.32 TARGET ORGANS: May cause damage to target organs, based on animal data.

11.33 IRRITANCY: Irritating to contaminated tissue.

11.34 SENSITIZATION: No component is known as a sensitizer.

11.35 MUTAGENICITY: No known reports of mutagenic effects in humans.

11.36 EMBRYOTOXICITY: No known reports of embryotoxic effects in humans.

11.37 TERATOGENICITY: No known reports of teratogenic effects in humans.

11.38 REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

A MUTAGEN is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate across generational lines. An EMBRYOTOXIN is a chemical which causes damage to a developing embryo (such as: within the first 8 weeks of pregnancy in humans), but the damage does not propagate across generational lines. A TERATOGEN is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A REPRODUCTIVE TOXIN is any substance which interferes in any way with the reproductive process.

### 11.4 MAMMALIAN TOXICITY INFORMATION

MATERIAL	CAS#	EINECS#	LOWEST KNOWN LETHAL DOSE DATA
Propylene Glycol	57-55-6	200-338-0	LOWEST KNOWN LD50 (ORAL) 18300.0 mg/kg(Guinea Pigs)

COMPANY IDENTITY: Noble Company  
PRODUCT IDENTITY: NOBURST AL CONCENTRATE

SDS DATA: 04/22/2022  
REPLACES: 03/01/2015

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

### 12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

### 12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:

No aquatic environmental information is available on this product. The substance may be hazardous in the environment. Special attention should be given to water organisms.

### 12.4 MOBILITY IN SOIL

This material is a mobile liquid.

### 12.5 DEGRADABILITY

This product is completely biodegradable.

### 12.6 ACCUMULATION

Bioaccumulation of this product has not been determined.

## SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed waste haulers for disposal.

**ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.**

## SECTION 14. TRANSPORT INFORMATION

MARINE POLLUTANT: No  
DOT/TDG SHIP NAME: Not Regulated  
DRUM LABEL: None  
IATA / ICAO: Not Regulated  
IMO / IMDG: Not Regulated  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

## SECTION 15. REGULATORY INFORMATION

### 15.1 EPA REGULATION:

**SARA SECTION 311/312 HAZARDS: None Known**

All components of this product are on the TSCA list. This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

### 15.2 STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):

This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

### 15.3 INTERNATIONAL REGULATIONS

The identified components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

### 15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

D2B: Irritating to skin / eyes.

This product was classified using the hazard criteria of the Controlled Products Regulations (CPR). This Document contains all information required by the CPR.

COMPANY IDENTITY: Noble Company  
PRODUCT IDENTITY: NOBURST AL CONCENTRATE

SDS DATA: 04/22/2022  
REPLACES: 03/01/2015

**SECTION 16. OTHER INFORMATION**

**16.1 HAZARD RATINGS:**

**HEALTH (NFPA): 1, HEALTH (HMIS): 1, FLAMMABILITY: 1, PHYSICAL HAZARD: 0**  
(Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

16.2 SDS DATE: 03/01/2015

**NOTICE**

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Unless updated, the Safety Data Sheet is valid until 04/22/2025.

Safety Data Sheet was prepared by: Chemical Data Services, e-mail: chemdatsrv@aol.com.