



Section 1. Product and Company Identification

Product Identifier F30 - Bug Off
Product Use Description: Clear BlueLiquid with low odor

Manufacturer or suppliers' details

P & S Sales, Inc	Emergency Number: 800-255-3924
20943 Cabot Blvd.	Customer Service: 510-732-2628
Hayward CA 94545	Business Fax: 510-732-2632

Section 2. Hazards Identification

GHS Classification

Eye Damage : Category 1
Chronic Aquatic Toxicity : Category 4
Skin Irritation : Category 2

GHS Label Elements

Hazard pictograms



Hazard Word Danger

Hazard Statements

May be harmful if swallowed
Causes serious eye damage
May cause respiratory irritation
Causes mild skin irritation

Precautionary Statements



Wash skin thoroughly after handling
Avoid release to the environment
Wear protective gloves/protective clothing/eye protection/face protection
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
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
Dispose of contents/container to an approved waste disposal plant.

3. Composition Information on Ingredients

CAS Number	Wt %	Component Name
6834-92-0	1-4%	Sodium Metasilicate
66455-15-0 / 68551-12-2	3-8%	Ethoxylated Alcohol Mixture
68002-97-1	1-5%	Ethoxylated Alcohol Mixture

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

4. First Aid Measures

If Inhaled: If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced.

Skin Contact: Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. Immediately call a doctor or physician.

If Ingested: Do not induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire Fighting Measures

Flammability Overview: Considered a low flammability risk.

Extinguishing Media: Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor extinguishing media to surrounding fire. Avoid using high-pressure water jet that can froth liquid.

Special Protective Equipment for Firefighters:

Wear a self-contained breathing apparatus (SCBA) for fighting large fires.

Hazardous Combustion Products: Carbon oxides.



6. Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation. No action should be taken involving any personal risk or without suitable training.

Environmental Precautions: If safe to do so, avoid the dispersal of spilled material and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution. Product may be harmful to the environment. Collect spillage.

Containment and Clean Up: If safe to do so, stop the leak or spill. Move containers away from the spill area.

Prevent entry into sewers, water courses, basements, and confined areas. Contain and collect spilled material with non-combustible, absorbent material and place in a container for disposal according to local regulations. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same physical hazards as the spilled product. If assistance is needed call CHEMTREC or emergency services.

7. Handling and Storage

Do not get in eyes, or skin or on clothing. Do not breathe mist. Keep container closed. Use only with adequate ventilation. Do not taste or swallow. Wash thoroughly after handling.

Wear personal protective as described in personal protection section (8).

Storage: Do NOT store near strong acids.

8. Exposure Controls and Personal Protection

6834-92-0	Sodium Metasilicate	none established
66455-15-0 /	Ethoxylated Alcohol Mixture	none established
68551-12-2		
68002-97-1	Ethoxylated Alcohol Mixture	none established

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). Dilution ventilation acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. Monitor carbon monoxide and oxygen levels in tank and enclosed spaces.

Eye/ Face Protection: Where there is potential for eye contact, wear chemical goggles, and have eye-flushing equipment immediately available.

Skin Protection: Natural rubber or Polyvinyl chloride gloves should be worn when handling this



material. Wear chemical goggles and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection: Avoid breathing vapor or mist. Use NIOSH approved respiratory protection equipment appropriate to the material and/ or its components when airborne exposure limits are exceeded (see below). Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full-face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

Respiratory protection programs must comply with 29 CFR & 1910.134

Other Protective Equipment: Rubber boots, Rubber suit or Apron, Chemical resistant protective clothing.

9. Physical and Chemical Properties

Flash Point >100°C (212°F)	Upper Flamability Limit	N/A
Auto Ignition N/A	Lower Flamability Limit	N/A
Physical State Liquid	Color Blue	Vapor Press 1.6 mm/Hg @20C
pH 10.5	Specific Gravity 1.03	Viscosity thin
Vapor Density (Air=1) N/A	Melting Point °F 28	Odor low
Water Solubility complete	VOC Content	0 lb/Gal

10. Stability and Reactivity

Stability Stable **Hazardous Polymerization** Not Expected to Occur

Conditions to Avoid Avoid strong acids, metals and organic material such as chlorinated hydrocarbons.

Hazardous Decomposition Products Explosive hydrogen gas can be liberated on contact with metals, such as zinc, tin or aluminum. Hydrogen gas can result in explosive hazards in confined spaces.

11. Toxicological Information

Acute Toxicity - mixture

LD50 (oral) Rat > 5000 mg/Kg (based on component data)

LD50 (dermal) Rabbit > 5000 mg/Kg (based on component data)

LD50 (inhalation) Rat > 5000 mg/m3 (OECD 403) (based on component data)

Inhalation: May be harmful if inhaled. Avoid breathing vapors.

Skin: May cause skin irritation.

Eyes: Causes serious eye irritation or damage. Avoid contact.

Ingestion: May be harmful if swallowed. Do not ingest.



12. Ecological Information

Acute Ecotoxicity - mixture

LC50 (96 hr) Fish = 250 mg/l

Considered readily biodegradable
Not expected to bioaccumulate

This product may be harmful to the environment and aquatic organisms if released in large quantities. Avoid release into sewers, drains, and waterways. Inform the relevant authorities if the product has caused environmental pollution. Collect spillage.

13. Disposal Considerations

Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual material. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulation.

14. Transportation Information

Cleaning Compound, Not Regulated

15. Regulatory Information

OSHA Hazards : Acute Health hazard

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity - This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute health hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List -
Not Regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) -



Not Regulated

Safe Drinking Water Act -
Not Regulated

16. Other Information **Revision Date** 6/3/2015

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

Key or legend to abbreviations and acronyms used in the safety data sheet

- ACGIH American Conference of Government Industrial Hygienists
- LD50 Lethal Dose 50%
- AICS Australia, Inventory of Chemical Substances
- LOAEL Lowest Observed Adverse Effect Level
- DSL Canada, Domestic Sub- stances List
- NFPA National Fire Protection Agency
- NDSL Canada, Non-Domestic Sub- stances List
- NIOSH National Institute for Occupational Safety & Health
- CNS Central Nervous System
- NTP National Toxicology Program
- CAS Chemical Abstract Service
- NZIoC New Zealand Inventory of Chemicals
- EC50 Effective Concentration
- NOAEL No Observable Adverse Effect Level
- EC50 Effective Concentration 50%
- NOEC No Observed Effect Concentration
- EGEST EOSCA Generic Exposure Scenario Tool
- OSHA Occupational Safety & Health Administration
- EOSCA European Oilfield Specialty Chemicals Association
- PEL Permissible Exposure Limit
- EINECS European Inventory of Exist- ing Chemical Substances
- PICCS Philipines Inventory of Commercial Chemical Substances
- MAK Germany Maximum Concentration Values
- PRNT Presumed Not Toxic
- GHS Globally Harmonized System
- RCRA Resource Conservation Recovery Act
- >= Greater Than or Equal To
- STEL Short-term Exposure Limit
- IC50 Inhibition Concentration 50%
- SARA Superfund Amendments and Reauthorization Act.
- IARC International Agency for Re- search on Cancer
- TLV Threshold Limit Value
- IECSC Inventory of Existing Chemical Substances in China
- TWA Time Weighted Average
- ENCS Japan, Inventory of Existing and New Chemical Sub- stances
- TSCA Toxic Substance Control Act



KECI Korea, Existing Chemical Inventory

UVCB Unknown or Variable Composition, Complex Reaction Products, and Biological Materials

<= Less Than or Equal To

WHMIS Workplace Hazardous Materials Information System

LC50 Lethal Concentration 50%