

7769 95th Street South Cottage Grove, MN 55016

### **SAFETY DATA SHEET**

Revision Date: 6/8/2015

Emergency Phone: 1-800-535-5053 (Infotrac)

#### **Section 1: Identification**

**Product Name:** Force **Code:** 98PFO00

Chemical Type: Liquid Manufacturer/Supplier:

Innovative Chemical Corporation 7769 95th Street South

Cottage Grove, MN 55016

651-649-1762

### Section 2: Hazard(s) Identification

### **OSHA/HCS** status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture: Not classified

#### **Label elements**

Signal word: Warning

**Hazard statements:** Eye irritant.

Harmful if swallowed.

# **Precautionary Statements**

Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

Hazards not otherwise classified: None known.



## **Section 3: Composition/Information on Ingredients**

Substance or mixture: Mixture

Other means of identification: Not available.

CAS number/other identifiers

CAS number: Not applicable.

Hazardous Components		
Chemical Name	%weight	CAS
2-Butoxyethanol; Ethylene glycol monobutyl ether	≥3-<5	111-76-2
sodium hydroxide	≥1-<3	1310-73-2
Fatty acids, tall-oil, sodium salts	≥1-<3	61790-45-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational limits, if available are listed in Section 8.

Description	Description of first aid measures	
Eyes	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.	
	Check for and remove any contact lenses. Get medical attention if irritation occurs.	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical	
	attention if symptoms occur.	
Skin	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get	
	medical attention if symptoms occur.	
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at	
	rest in a position comfortable for breathing. If material has been swallowed and the exposed	
	person is conscious, give small quantities of water to drink. Do not induce vomiting unless	

directed to do so by medical personnel. Get medical attention if symptoms occur.

**Section 4: First-Aid Measures** 

# Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact	Eye irritant.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	May be harmful if swallowed.

#### Over-exposure signs/symptoms

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

## Indication of any immediate medical attention needed

Notes to Physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities	
	have been ingested or inhaled.	
Specific treatment	No specific treatment.	
Protection of	No action shall be taken involving any personal risk or without suitable training.	
first-aiders		

#### **See toxicological information (Section 11)**

Section 5: Fire-Fighting Measures	
Extinguishing media	
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical In a fire or if heated, a pressure increase will occur and the container	
	may burst.
Hazardous thermal decomposition	Decomposition products may include the following materials: carbon
products	dioxide, carbon monoxide, metal oxide/oxides.
Protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of
	the incident if there is a fire. No action shall be taken involving any
	personal risk or without suitable training.
Protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self
	contained breathing apparatus (SCBA) with a full face piece operated in

### **Section 6: Accidental Release Measures**

positive pressure mode.

# Personal precautions, protective equipment and emergency procedures

For non-emergency	No action shall be taken involving any personal risk or without suitable training.
personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from
	entering. Do not touch or walk through spilled material. Put on appropriate personal
	protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any
	information in Section 8 on suitable and unsuitable materials. See also the
	information in "For non- emergency personnel".
<b>Environmental precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways,
	drains and sewers. Inform the relevant authorities if the product has caused
	environmental pollution (sewers, waterways, soil or air).

## Methods and material for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop
	up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry
	material and place in an appropriate waste disposal container. Dispose of via a
	licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release upwind
	Prevent entry into sewers, water courses, basements or confined areas. Wash
	spillages into an effluent treatment plant or proceed as follows. Contain and
	collect spillage with non-combustible, absorbent material e.g. sand, earth,
	vermiculite or diatomaceous earth and place in container for disposal according to
	local regulations (see Section 13). Dispose of via a licensed waste disposal
	contractor. Note: see Section 1 for emergency contact information and section 13
	for waste disposal.

# **Section 7: Handling and Storage**

# **Precautions for safe handling**

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes
	or on skin or clothing. Do not breathe vapor mist. Do not ingest. If during normal use
	the material presents a respiratory hazard, use only with adequate ventilation or
	wear appropriate respirator. Keep in the original container or an approved
	alternative made from a compatible material, kept tightly closed when not in use.
	Keep away from acids. Empty containers retain product residue and can be
	dangerous. Do not reuse container.
Advice on general	Eating, drinking and smoking should be prohibited in areas where this material is
occupational hygiene	handled, stores and processed. Workers should wash hands and face before eating,
	drinking and smoking. Remove contaminated clothing and protective equipment
	before entering eating areas. See also section 8 for additional information on
	hygiene measures.
Conditions for safe storage	Store in accordance with local regulations. Store in original container protected
including any	from direct sunlight in a dry, cool and well-ventilated area, away from incompatible
incompatibilities	materials (see section 10) and food and drink. Keep container tightly closed and
	sealed until ready for use. Containers that have been opened must be carefully
	resealed and kept to prevent leakage. Do not store in unlabeled containers. Use
	appropriate containment to avoid environmental contamination.

# **Section 8: Exposure Controls/Personal Protection**

# **Control parameters**

# **Occupational exposure limits**

Ingredient name	Exposure limits
2-Butoxyethanol; Ethylene glycol monobutyl ether	OSHA PEL 2989 (United States, 3/1989).
	Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 120 mg/m₃ 8 hours.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	TWA: 5 ppm 10 hours.
	TWA: 24 mg/m₃ 10 hours.
	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m₃ 8 hours.
sodium hydroxide	ACGIH TLV (United States, 4/2014).
	C: 2mg/m₃
	OSHA PEL 1989 (United States, 3/1989).
	CEIL: 2 mg/m₃
	NIOSH REL (United States, 10/2013).
	CEIL: 2 mg/m₃
	OSHA PEL (United States, 2/2013).
	TWA: 2 mg/m₃ 8 hours.

Appropriate	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures,
engineering controls	local exhaust ventilation or other engineering controls to keep worker exposure to
	airborne contaminants below any recommended or statutory limits.
Environmental	Emissions from ventilation or work process equipment should be checked to ensure
exposure controls	they comply with the requirements of environmental protection legislation. In some
	cases, fume scrubbers, filters or engineering modifications to the process equipment
	will be necessary to reduce emissions to acceptable levels.

# **Individual protection measures**

Wash hands, forearms and face thoroughly after handling chemical products, before
eating, smoking and using the lavatory and at the end of the working period.
Appropriate technique should be used to remove potentially contaminated clothing.
Wash contaminated clothing before reusing. Ensure that eyewash stations and safety
showers are close to the workstation.
Use a properly fitted, air-purifying or air-fed respirator complying with an approved
standard if a risk assessment indicates this is necessary. Respirator selection must be
based on known or anticipated exposure levels, the hazards of the product and the
safe working limits of the selected respirator.
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,
gases or dusts. If contact is possible, the following protection should be worn, unless
the assessment indicates a higher degree of protection: chemical splash goggles
and/or face shield. If inhalation hazards exist, a full-face respirator may be required
instead. Recommended: splash goggles.
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 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. 1-4
hours (breakthrough time): butyl rubber.
Personal protective equipment for the body should be selected based on the task
being performed and the risks involved and should be approved by a specialist
before handling this product. Appropriate footwear and any additional skin
protection measures should be selected based on the task being performed and the
risks involved and should be approved by a specialist before handling this product.

# **Section 9: Physical and Chemical Properties**

Physical state Liquid Color Blue

Odor None Added
Odor threshold Not available

**pH** 10

Melting Point Not available

**Boiling Point** Not available

Flash Point Closed cup: >150°C (>302°F) [Product does not sustain combustion.]

**Evaporation rate** Not available

Flammability (solid, gas) Not available

Lower and upper explosive (flammable) limits Not available

Vapor pressureNot availableVapor densityNot available

Relative density 1.06

**Solubility** Easily soluble in cold and hot water. **Partition coefficient: n-octanol/water** Not available

Auto-ignition temperatureNot availableDecomposition temperatureNot availableViscosityNot available

#### **Section 10: Stability and Reactivity**

**Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: Stable

Possibility of hazardous reactions: Under normal conditions, hazardous reactions will not occur.

Conditions to avoid: No specific data

Incompatible materials: Reactive or incompatible with the following materials: acids

Hazardous decomposition products: Under normal conditions, hazardous decomposition products should not be

produced.

# **Section 11: Toxicological Information**

### **Acute toxicity**

Ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol; Ethylene	LC50 Inhalation Gas	Rat	450 ppm	4 hrs
glycol monobutyl ether				
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-

# Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
2-Butoxyethanol; Ethylene	Eyes- Moderate irritant	Rabbit	-	24hrs 100 mg	-
glycol monobutyl ether					
	Eyes- Severe irritant	Rabbit	-	100 mg	-
	Skin- Mild irritant	Rabbit	-	500 mg	-
Sodium hydroxide	Eyes- Severe irritant	Monkey	-	24 hrs 1%	-
	Skin- Mild irritant	Rabbit	-	400 μg	-
	Eyes- Severe irritant	Rabbit	-	24 hrs 50 μg	-
	Eyes- Severe irritant	Rabbit	-	1%	-
	Eyes- Severe irritant	Rabbit	-	0.5 min 1 mg	-
	Skin- Mild irritant	Human	-	24 hrs 2 %	-
	Skin- Severe irritant	Rabbit	-	25 hrs 500 mg	-

#### Sensitization

Not available

### Mutagenicity

Not available

### Carcinogenicity

Not available

#### Classification

Ingredient name	OSHA	IARC	NTP
2-Butoxyethanol; Ethylene glycol monobutyl ether	-	3	-

### **Reproductive toxicity**

Not available

### **Teratogenicity**

Not available

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

# **Aspiration hazard**

Not available

#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

Eye contact	Causes eye irritation	
Inhalation	Io known significant effects or critical hazards.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	No known significant effects or critical hazards.	

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include: pain, watering, redness.	
Inhalation	No specific data.	
Skin contact	No specific data.	
Ingestion	Adverse symptoms may include: stomach pains.	

# Delayed and immediate effects and chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

#### Potential chronic health effects

Not available

General: No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards. **Mutagencity:** No known significant effects or critical hazards. **Teratogenicity:** No known significant effects or critical hazards.

**Developmental effects:** No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	6735.7 mg/kg
Dermal	22541 mg/kg
Inhalation (vapors)	225.4 mg/l

# **Section 12: Ecological information**

#### **Toxicity**

Ingredient name	Result	Species	Exposure
2-Butoxyethanol; Ethylene	Acute EC50>1000 mg/l Fresh water	Daphnia-Daphnia magna	48 hrs
glycol monobutyl ether			
	Acute LC50 800000 μg/l Marine water	Crustacians-Crangon	48 hrs
		crangon	
	Acute LC50 1250000 μg/l Marine	Fish-Menidia beryllina	96 hrs
	water		
sodium hydroxide	Acute EC50 40.38 mg/l Fresh water	Crustaceans-	
		Ceriodaphnia dubia-	48 hrs
		neonate	
	Acute LC50 125 ppm Fresh water	Fish-Gambusia affinis-	96 hrs
		Adult	
	Chronic NOEC 56 mg/l Marine water	Fish-Poecilia reticulata-	96 hrs
		Young	

# Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol; Ethylene	0.81	-	low

glycol monobutyl ether

### Mobility in soil

Soil/water partition coefficient (Koc): Not available

Other adverse effects: No known significant effects or critical hazards.

### **Section 13: Disposal considerations**

#### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14: Transport information**

	UN				Environmenta	
Regulatory info	number	Proper shipping name	Classes	PG	I hazards	Additional info
DOT Classification	Not	-	-	-	No	-
	regulated					
TDG Classification	Not	-	-	-	No	-
	regulated					
Mexico	Not	-	-	-	No	-
Classification	regulated					
ADR/RID Class	Not	-	-	-	No	-
	regulated					
IMDG Class	Not	-	-	-	No	-
	regulated					
IATA-DGR Class	Not	-	-	-	No	-
	regulated					

**Special precautions for user:** Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not available

#### **Section 15: Regulatory information**

U.S. Federal regulations TSCA 8(a)PAIR:benzaldehyde

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: sodium hydroxide; sodium dodecylbenzenesulfonate

Clean Air Act Section 112(b)

**Hazardous Air Pollutants** 

(HAPs)

Not listed

Clean Air Act Section 602

**Class I Substances** 

Not Listed

Clean Air Act Section 602

Class II Substances

Not Listed

**DEA List I Chemicals** 

(Precursor Chemicals)

Not Listed

**DEA List II Chemicals** 

(Essential Chemicals)

Not Listed

SARA 302/304 No products found

SARA 304 RQ Not applicable.

**SARA 311/312** 

Classification Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
			<u> </u>			
2-Butoxyethanol; Ethylene	≥3-<5	No	No	No	Yes	No
glycol monobutyl ether						
sodium hydroxide	≥1-<3	No	No	No	Yes	No
Fatty acids, tall-oil, sodium	≥1-<3	No	No	No	Yes	No
salts						

#### **SARA 313**

	Product name	CAS number	%
Form R- Reporting requirements	2-butoxyethanol	111-76-2	≥3-<5
Supplier notification	2-butoxyethanol	111-76-2	≥3-<5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

Massachusetts: The following components are listed: 2-Butoxyethanol; Sodium Hydroxide solution

New York: The following components are listed: Sodium Hydroxide

New Jersey: The following components are listed: 2-Butoxyethanol; Butyl Cellosolve; Sodium Hydroxide Solution

Pennsylvania: The following components are listed: Ethanol, 2-Butoxy-; Sodium Hydroxide Solution

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not Listed

Montreal Protocol (Annexes A, B, C, E)

Not listed

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed

**Rotterdam Convention on Prior Inform Consent (PIC)** 

Not listed

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed

International lists: Australia inventory (AICS): All components are listed or exempted.

Canada: All components are listed or exempted.

**China inventory (IECSC):** All components are listed or exempted.

**Europe:** All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Malaysia: Not determined.

**Korea inventory:** All components are listed or exempted. **New Zealand:** All components are listed or exempted.

**Philippines inventory (PICCS):** All components are listed or exempted.

**Taiwan:** All components are listed or exempted.

#### **Section 16: Other information**

**Hazardous Material** 

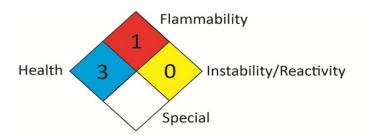
Information System (U.S.A.):



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association:



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification
Eye Dam. 1,H318	On basis of test data

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist