



**PRESQUE ISLE**  
WINE CELLARS

9440 West Main Rd, North East, PA 16428  
800-488-7492 WWW.PIWINE.COM

## SAFETY DATA SHEET

Creation Date 11-April-2012 Revision Date 1-December-2017 Revision Number 1

### 1. Identification

Product Name: Solvent Developer

Cat No. :SD250

Synonyms: Chromatography medium, Chromatography Developer Solution

Recommended Use

Laboratory chemicals.

**Uses advised against:** No Information available

Details of the supplier of the safety data sheet

### 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Signal Word

Danger

Hazard Statements

Flammable liquid and vapor

Harmful if swallowed

Causes skin irritation

Causes serious eye damage

May cause respiratory irritation

May cause drowsiness or dizziness

Company

Presque Isle Wine Cellars

9440 West Main Rd

North East, PA 16428

Tel: 814-725-1314

Emergency Telephone Number

CHEMTRECO, Inside the USA: 800-424-9300

CHEMTRECO, Outside the USA: 001-703-527-3887

Acute oral toxicity Category 4

Skin Corrosion/irritation Category 2

Serious Eye Damage/Eye Irritation Category 1

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system, Central nervous system (CNS).

Flammable liquids Category 3



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

**Response:** Get medical attention/advice if you feel unwell

### 3. Composition / information on ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
71-36-3-99	1-Butanol	~47%	200-751-6
7732-18-5	Water	~47%	231-791-2
64-18-6	Formic Acid	~5%	200-579-1
76-60-8	Bromocresol Green	<1%	200-972-8

### 4. First aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention. Call a POISON CENTER or doctor/physician if you feel unwell

**Ingestion** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

**Most important symptoms/effects** breathing difficulties. . Causes eye burns. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Notes to Physician** Treat symptomatically

**Fire** In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Storage** Store in a well-ventilated place. Keep container tightly closed

**Disposal** Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)  
 None identified

### 5. Fire fighting measures

**Suitable Extinguishing Media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

**Unsuitable Extinguishing Media** No information available

**Flash Point** 35 °C / 95 °F

**Method** - Closed cup

**Autoignition Temperature** No information available

**Explosion Limits** No information available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

**Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)**

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and fullprotective gear. **NFPA**

## 6. Accidental release measures

**Personal Precautions** Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Avoid release to the environment. See Section 12 for additional ecological information. Methods for Containment and Clean Up

Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

## 7. Handling and storage

**Handling** Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

## 8. Exposure controls / personal protection

Exposure Guidelines

Health

2

Flammability

3

Instability

0

Physical hazards

N/A

## 9. Physical and chemical properties

**Physical State:** Clear Liquid

**Appearance:** Orange

**Odor;** banana-like- sweetish acidic odor

**Odor Threshold:** No information available

**pH:** No information available

**Melting Point/Range:** No information available

**Boiling Point/Range:** No information available

**Flash Point:** No information available

**Method:** No information available

**Evaporation Rate:** No information available

Flammability (solid, gas) Not applicable

Flammability or explosive limits

**Upper:** No information available

**Lower:** No information available

**Vapor Pressure:** No information available

**Vapor Density:** No information available

**Relative Density:** No information available

**Solubility:** Slightly soluble in water

Partition coefficient; n-octanol/water No data available

Auto-ignition Temperature No information available

Decomposition temperature No information available

**Viscosity:** No information available

Molecular Formula Mixture No information available

Molecular Weight No information available

Refractive index No information available

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Component ACGIH TLV OSHA PEL NIOSH IDLH

n-Butyl alcohol TWA: 20 ppm Skin

(Vacated) Ceiling: 50 ppm

**NIOSH IDLH:** The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protective Equipment**

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Incompatible Materials** Strong oxidizing agents, Reducing agents, Acid chlorides, copper, Copper alloys, Acid anhydrides

**Hazardous Decomposition Products** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

**11. Toxicological information**

Acute Toxicity

Product Information

Component Information

Component LD50 Oral LD50 Dermal LC50 Inhalation

n-Butyl alcohol 700 mg/kg ( Rat ) 3402 mg/kg ( Rabbit ) 8000 ppm ( Rat ) 4 h

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** Severe eye irritant; Irritating to respiratory system and skin

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component CAS-No IARC NTP ACGIH OSHA Mexico

n-Butyl alcohol 71-36-3 Not listed Not listed Not listed Not listed Not listed

**Mutagenic Effects** Mutagenic effects have occurred in experimental animals.

**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects** Developmental effects have occurred in experimental animals.

**Teratogenicity** Teratogenic effects have occurred in experimental animals.

**STOT - single exposure** Respiratory system Central nervous system (CNS)

STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**12. Ecological information**

Ecotoxicity

This product contains the following substance(s) which are hazardous for the environment.

Component Freshwater Algae Freshwater Fish Microtox Water Flea

n-Butyl alcohol 500 mg/L EC50 > 72 h 500

mg/L EC50 > 96 h

1910000 µg/L LC50 96 h

100000 - 500000 µg/L LC50

96 h 1740 mg/L LC50 96 h

1730 - 1910 mg/L LC50 96 h

EC50 = 2041.4 mg/L 5 min

EC50 = 2186 mg/L 30 min

EC50 = 3980 mg/L 24 h

EC50 = 4400 mg/L 17 h

1897 - 2072 mg/L EC50 48

h 1983 mg/L EC50 = 48 h

**Persistence and Degradability** Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

**Mobility.** Will likely be mobile in the environment due to its water solubility. Component log Pow n-Butyl alcohol 0.785

#### 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component RCRA - U Series Wastes RCRA - P Series Wastes n-Butyl alcohol - 71-36-3 U031 –

#### 14. Transport information

DOT

**UN-No** UN1120

Proper Shipping Name Solvent Developer

Hazard Class 3

Packing Group III

TDG

**UN-No** UN1120

Proper Shipping Name Solvent Developer

Hazard Class 3

Packing Group III

IATA

**UN-No** UN1120

Proper Shipping Name Solvent Developer

Hazard Class 3

Packing Group III

IMDG/IMO

**UN-No** UN1120

Proper Shipping Name Solvent Developer

Hazard Class 3

Packing Group III

#### 15. Regulatory information

International Inventories

Component TSCA DSL NDSL EINECS ELINCS NLP PICCS ENCS AICS IECSC KECL

n-Butyl alcohol X X - 200-751-6 - X X X X X

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base

Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants

that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

**TSCA 12(b)** Not applicable

SARA 313

Component CAS-No Weight % SARA 313 - Threshold

Values %

n-Butyl alcohol 71-36-3 99 1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes

Chronic Health Hazard No

Fire Hazard Yes

Sudden Release of Pressure Hazard No

Reactive Hazard No

Clean Water Act Not applicable

**Clean Air Act** Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component Hazardous Substances RQs CERCLA EHS RQs

n-Butyl alcohol 5000 lb -

**California Proposition 65** This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component Massachusetts New Jersey Pennsylvania Illinois Rhode Island

n-Butyl alcohol X X X - X

U.S. Department of Transportation

Reportable Quantity (RQ): Y

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

**Mexico - Grade** Serious risk, Grade 3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMIS Hazard Class** B2 Flammable liquid

D1B Toxic materials

D2B Toxic materials

#### 16. Other information

Prepared By

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

The information provided on this Safety Data Sheet 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