

# **Boyadine**

# SAFETY DATA SHEET

Preparation Date: 26-Nov-2007 Revision Date: 29-May-2015 Revision Number: 2

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name Boyadine

Other means of identification

Item#: 0129 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Teat Dip, Restricted to professional users

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier DeLaval Manufacturing

11100 N. Congress Ave. Kansas City, MO 64153

Tel: 816-891-7700, 8am - 5pm M-F

**Emergency Telephone Number** 

Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Classification

## **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

#### **Label Elements**

| Emergency Overview |
|--------------------|
|--------------------|

 Appearance
 Brown
 Physical state
 Liquid
 Odor
 No information available

## Hazards not otherwise classified (HNOC)

Other Information

Harmful to aquatic life

Unknown Acute Toxicity 0.06% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No    | Weight % | Trade Secret |
|---------------|-----------|----------|--------------|
| lodine        | 7553-56-2 | 0 - 10%  | *            |
| Glycerol      | 56-81-5   | 10 - 20% | *            |

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### **FIRST AID MEASURES**

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

eye irritation persists, get medical advice/attention.

**Skin contact** Wash off with plenty of water.

**Inhalation** Move to fresh air.

**Ingestion** Call a physician or Poison Control Centre immediately.

#### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and** 

Effects

According to our experience and to the information provided to us, the product does not

have any harmful effects if it is used and handled as specified.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### **Unsuitable Extinguishing Media**

No information available.

#### Specific hazards arising from the chemical

No information available.

#### **Protective Equipment and Precautions for Firefighters**

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

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes.

#### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

## Methods and material for containment and cleaning up

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

## **Precautions for Safe Handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes.

# Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze.

Freezing will affect the physical condition but will not damage the material. Thaw and mix

before using.

Incompatible Materials strong oxidizing agents, strong acids, strong bases

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

#### Keep out of the reach of children

| Chemical Name       | ACGIH TLV                      | OSHA PEL                                       | NIOSH IDLH |
|---------------------|--------------------------------|--|------------|
| lodine<br>7553-56-2 | TWA: 0.01 ppm<br>STEL: 0.1 ppm | Ceiling: 0.1 ppm<br>Ceiling: 1 mg/m³           | 2 ppm      |
| Glycerol<br>56-81-5 |                                | TWA: 10 mg/m³<br>TWA: 5 mg/m³<br>TWA: 15 mg/m³ |            |

**Appropriate engineering controls** 

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

**Eye/face Protection** If splashes are likely to occur, wear:. Safety glasses with side-shields.

**Skin and body protection** No special technical protective measures are necessary.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Liquid Appearance Brown

AppearanceBrownOdorNo information availableColorNo information availableOdor ThresholdNo information available

Property Values Remarks/ Method

pH 4 - 6

Melting point/freezing pointNo information availableBoiling Point/RangeNo information availableFlash PointNo information availableEvaporation rateNo information availableFlammability (solid, gas)No information available

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor Pressure
Vapor Density

No information available
No information available
No information available
No information available

Specific Gravity 1.05 Water Solubility soluble

Solubility in other solvents
Partition coefficient: n-octanol/waterNo information available
Autoignition Temperature
Decomposition temperature
Viscosity of Product
Dynamic viscosity
Explosive Properties
No information available

## **Other information**

Softening PointNo information availableMolecular WeightNo information availableVOC ContentNo information available

Density 8.7 lb/gal

Bulk Density No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

## **Chemical Stability**

Stable under normal conditions.

## Possibility of hazardous reactions

None known.

#### Conditions to Avoid

Extremes of temperature and direct sunlight.

## **Incompatible Materials**

strong oxidizing agents, strong acids, strong bases

## Hazardous decomposition products

None known.

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Inhalation** No data available.

Eye contact No data available.

**Skin contact** No data available.

**Ingestion** No data available.

| Chemical Name | LD50 Oral           | LD50 Dermal       | LC50 Inhalation     |
|---------------|---------------------|-------------------|---------------------|
| lodine        | 14000 mg/Kg         | -                 | 137 ppm             |
| 7553-56-2     |                     |                   | 4.588 mg/L          |
| Glycerol      | = 12600 mg/kg (Rat) | 21900 mg/kg (Rat) | > 570 mg/m³(Rat)1 h |
| 56-81-5       |                     |                   | - , ,               |

## Information on toxicological effects

Symptoms No information available.

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

SensitizationNo information available.Mutagenic effectsNo information available.CarcinogenicityNo information available.

Reproductive Effects
STOT - single exposure
STOT-repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

## Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0.06% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

2.78% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish                       | Microtox | Waterflea               |
|---------------|----------------------|----------------------------|----------|-------------------------|
| Iodine        | -                    | LC50 (96 h)                | -        | LC50 (48 h)             |
| 7553-56-2     |                      | 0.53 mg/L                  |          | 0.16 mg/L               |
| Glycerol      | -                    | 51 - 57: 96 h Oncorhynchus | -        | 500: 24 h Daphnia magna |
| 56-81-5       |                      | mykiss mL/L LC50 static    |          | mg/L EC50               |

## Persistence and degradability

No information available.

## **Bioaccumulation/Accumulation**

No information available.

| Chemical Name | Partition coefficient |
|---------------|-----------------------|
| Glycerol      | -1.76                 |
| 56-81-5       |                       |

#### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA TSCA DSL/NDSL** DSL/NDSL **EINECS/ELINCS** Does not Comply **ENCS** Does not Comply Complies **CHINA** Complies **KECL PICCS** Complies **AICS** Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. EPA Label information

EPA Pesticide registration number Not applicable

# **16. OTHER INFORMATION**

NFPA Health 1 Flammability 0 Instability 0 Physical Hazard -

Preparation Date:26-Nov-2007Revision Date:29-May-2015

**Revision Note** 

No information available

Disclaimer

The information provided on this SDS 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**