

# **Dyne**

# **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 Dyne

Other means of identification

Item#: 0108 Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended use** Formulated acidic detergent with an iodophor sanitizer for removing milkstone, protein, and

mineral deposits, Restricted to professional users

Uses advised against No information available

Details of the supplier of the safety data sheet

**Emergency Telephone Number** 

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

## Classification

#### **OSHA Regulatory Status**

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

Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3

Sulfuric acid and other mineral acids mist statement

The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric or other strong mineral acids (such as Hydrochloric and Nitric acid) as a known human carcinogen, (IARC category 1). This classification applies only to mists containing such mineral acids and not to the specific acids or their solutions, unless otherwise noted.

Flammable liquids	Category 3

## **Label Elements**

#### **Emergency Overview**

## DANGER

## Hazard Statements

Causes severe skin burns and eye damage

May cause cancer

May cause drowsiness or dizziness

Flammable liquid and vapor



Appearance Dark brown

Physical state Liquid

Odor No information available

## **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

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

Wash face, hands and any exposed skin thoroughly after handling

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

## **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

## **Precautionary Statements - Storage**

Store locked up

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

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

## Other Information

- · May be harmful if swallowed
- · May be harmful in contact with skin
- · Toxic to aquatic life with long lasting effects
- Toxic to aquatic life

Unknown Acute Toxicity

4.45% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Hydriodic acid	10034-85-2	0 - 10%	*
Isopropyl alcohol	67-63-0	20 - 30%	*
lodine	7553-56-2	0 - 10%	*
Phosphoric acid	7664-38-2	40 - 50%	*

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

## 4. FIRST AID MEASURES

#### **FIRST AID MEASURES**

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

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continue flushing for at least 15 minutes. Call a physician immediately.

**Skin contact**Wash off immediately with plenty of water for at least 15 minutes. Call a physician

immediately.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison

Control Centre immediately.

Ingestion Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control

Centre immediately. Never give anything by mouth to an unconscious person.

## 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

Water spray, Carbon dioxide (CO2), Foam

## **Unsuitable Extinguishing Media**

No information available.

#### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes.

## **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

Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

## **Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

# Methods and material for containment and cleaning up

Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Take precautionary measures against static discharges. Do not use sparking tools.

## 7. HANDLING AND STORAGE

## **Precautions for Safe Handling**

**Handling** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

## Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials bases, organic materials, light metals, bleach

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

## Keep out of the reach of children

Chemical Name	Chemical Name ACGIH TLV		NIOSH IDLH	
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³	2000 ppm	
lodine	TWA: 0.01 ppm	Ceiling: 0.1 ppm	2 ppm	
7553-56-2	STEL: 0.1 ppm	Ceiling: 1 mg/m³		
Phosphoric acid	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m³	1000 mg/m <sup>3</sup>	
7664-38-2	STEL: 3 mg/m <sup>3</sup>	STEL: 3 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** Goggles.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**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

AppearanceDark brownOdorNo information availableColorNo information availableOdor ThresholdNo information available

Property Values Remarks/ Method

pH 2

Melting point/freezing point

No information available

Boiling Point/Range

No information available

Flash Point 35 °C / 95 °F

Evaporation rate No information available Flammability (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 1.27 Water Solubility soluble

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

Oxidizing Properties No information available

**Other information** 

Softening Point
Molecular Weight
VOC Content
No information available
No information available

**Density** 10.6 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

Gives off hydrogen by reaction with some metals (e.g. aluminum).

#### **Conditions to Avoid**

Heat, flames and sparks.

## Incompatible Materials

bases, organic materials, light metals, bleach

#### 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		
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg ( Rabbit )	72.6 mg/L (Rat) 4 h	
lodine 7553-56-2	14000 mg/Kg	-	137 ppm 4.588 mg/L	
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	2730 mg/kg (Rabbit)	850 mg/m³(Rat)1 h	

#### Information on toxicological effects

**Symptoms** No information available.

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

Sensitization No information available.

Mutagenic effects No information available.

Carcinogenicity .

Sulfuric acid and other mineral acids mist

statement

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acids and not to the specific acids or their solutions, unless otherwise noted.

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** 4.45% 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**

5.12% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Microtox	Waterflea
Isopropyl alcohol	1000: 96 h Desmodesmus	9640: 96 h Pimephales	EC50 = 35390 mg/L 5 min	13299: 48 h Daphnia magna
67-63-0	subspicatus mg/L EC50	promelas mg/L LC50		mg/L EC50
	1000: 72 h Desmodesmus	flow-through 11130: 96 h		-
	subspicatus mg/L EC50	Pimephales promelas mg/L		
		LC50 static 1400000: 96 h		
		Lepomis macrochirus µg/L		
		LC50		
lodine -		LC50 (96 h)	-	LC50 (48 h)
7553-56-2	7553-56-2			0.16 mg/L
Phosphoric acid	-	3 - 3.5: 96 h Gambusia	-	4.6: 12 h Daphnia magna
7664-38-2		affinis mg/L LC50		mg/L EC50

## Persistence and degradability

No information available.

#### Bioaccumulation/Accumulation

No information available.

No information available.				
Chemical Name	Partition coefficient			
Isopropyl alcohol	0.05			
67-63-0				

## Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations. Should not be released into the

environment.

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

## 14. TRANSPORT INFORMATION

DOT

UN-No 2924

Proper Shipping Name Flammable liquid, corrosive, n.o.s ( Isopropanol, Phosphoric acid )

Hazard Class 3
Subsidiary Class 8
Packing Group III

## 15. REGULATORY INFORMATION

**International Inventories** 

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

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

Chemical Name	CWA - Reportable Quantities	CWA - Toxi	c Pollutants	CWA - Priority Pollu	ıtants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb		-	-		Х
Chemical Name	RQ		CERC	LA EHS RQs		RQ
Phosphoric acid 7664-38-2	5000			-		RQ 5000 lb final RQ RQ 2270 kg final RQ

# 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 3 Flammability 2 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**