# SAFETY DATA SHEET



Revision date: 03-Jul-2020

**Revision Number** 1

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Product Name Dzolv D30

Product Code(s) 000000053894

Other means of identification

UN number 1824

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

**Recommended use**CIP (cleaning in process) of high temperature food processing equipment including

pasteurisers, vacreators, evaporators, and spray driers. CIP and manual cleaning of

stainless steel equipment.

**Uses advised against** No information available.

**Supplier** 

Ixom Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000

A. atralia

Australia

Telephone Number: +61 3 9906 3000

## Emergency telephone number

Emergency telephone number 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

# GHS Classification

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

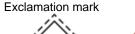
### **SIGNAL WORD**

Revision date: 03-Jul-2020 **Revision Number** 1

#### Danger

#### Label elements

Corrosion





#### **Hazard statements**

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

#### **Precautionary Statements - Prevention**

Keep only in original container

Do not breathe fume, gas, mist, vapours, spray

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Absorb spillage to prevent material damage

# **Precautionary Statements - Storage**

Store locked up

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

Store in corrosion resistant container with a resistant inner liner

## **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Other hazards which do not result in classification

Poisons Schedule (SUSMP)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

## Mixture

Chemical name	CAS No.	Weight-%
Sodium hydroxide	1310-73-2	20-60
Other component(s)	-	to 100

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

 000000053894 Dzolv D30
 Revision date:
 03-Jul-2020

 Revision Number
 1

Emergency telephone number Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

Inhalation Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If

breathing has stopped, give artificial respiration. Get medical attention immediately.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Immediately call a POISON CENTER or doctor/physician.

Ingestion Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water.

Get immediate medical advice/attention.

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

Symptoms Irritation/Corrosion.

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

Note to physicians Treat symptomatically. Can cause corneal burns.

## 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media Do not use straight streams

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Corrosive. Contact with metals may evolve flammable hydrogen gas.

## Special protective actions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

Hazchem code 2R

# 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Evacuate personnel to safe areas. Avoid contact with skin, eyes and inhalation of vapors.

Ensure adequate ventilation. Stop leak if you can do it without risk. Use personal protective

equipment as required.

**Environmental precautions** 

**Environmental precautions**Local authorities should be advised if significant spillages cannot be contained.

 000000053894 Dzolv D30
 Revision date:
 03-Jul-2020

 Revision Number
 1

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

After cleaning, flush away traces with water.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Avoid breathing vapors or mists. Avoid contact with skin and eyes. Do not eat, drink or

smoke when using this product. Keep out of reach of children.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

foodstuffs. At temperatures greater than 40°C, tanks must be stress relieved. Keep

container closed when not in use.

This material is a Sceduled Poison and must be stored, maintained and used in accordance

with the relevant regulations.

Packaging materials Do not store in aluminium containers. Do not store in tin containers. Do not store in zinc

containers.

Incompatible materials Ammonium salts. Aluminum. Tin. Zinc.

Poisons Schedule (SUSMP) 6

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

Exposure Limits No value assigned for this specific material by Safe Work Australia. However, Workplace

Exposure Standard(s) for constituent(s):

Sodium hydroxide: Peak Limitation = 2 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

Peak Limitation - a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

## **Appropriate engineering controls**

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and

 000000053894 - Dzolv D30
 Revision date: 03-Jul-2020

 Revision Number 1

the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

## Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.











**Eye/face protection** Goggles. Face protection shield.

**Skin and body protection**Boots. Apron. Overalls.

Hand protection Impervious gloves.

Respiratory protection If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator

meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls** No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

AppearanceNo information available.ColorColourless to Pale YellowOdorNo information available.Odor thresholdNo information available.

PropertyValuesRemarks • MethodpHca. 14None known

No data available Melting point / freezing point None known Boiling point / boiling range No data available None known None known Flash point Not applicable **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative density1.33None known

Relative density1.33None knownWater solubilityMiscible in waterNone knownSolubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNot applicableNone knownDecomposition temperatureNo data availableNone known

 000000053894 Dzolv D30
 Revision date:
 03-Jul-2020

 Revision Number
 1

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

# 10. STABILITY AND REACTIVITY

Reactivity

Reactivity May react with ammonium salts resulting in evolution of ammonia gas.

**Chemical stability** 

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions Contact with metals (aluminum, zinc, tin) may release hydrogen gas.

Conditions to avoid

**Conditions to avoid**Do not contaminate food or feed stuffs.

**Incompatible materials** 

Incompatible materials Ammonium salts. Aluminum. Tin. Zinc.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

#### Information on likely routes of exposure

**Product Information**No adverse health effects expected if the chemical is handled in accordance with this

Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the

chemical is mishandled and overexposure occurs are:

**Inhalation** Irritating to respiratory system.

**Eye contact** Causes serious eye damage.

**Skin contact** Contact causes severe skin irritation and possible burns.

**Ingestion** Can burn mouth, throat, and stomach

Symptoms Irritation/Corrosion.

Numerical measures of toxicity - Product Information

No information available.

**000000053894** - **Dzolv D30** Revision date: 03-Jul-2020

Revision Number 1

#### Numerical measures of toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide	-	= 1350 mg/kg ( Rabbit )	-

See section 16 for terms and abbreviations

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

Skin corrosion/irritation Causes burns. Classification is based on mixture calculation methods based on component

data.

Serious eye damage/eye irritation Causes burns. Classification is based on mixture calculation methods based on component

data.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity** Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium hydroxide	-	LC50: =45.4mg/L (96h,	-	-
		Oncorhynchus mykiss)		

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

**Mobility** 

**Mobility in soil** No information available.

Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

Revision Number 1

#### Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

# 14. TRANSPORT INFORMATION

#### ADG

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and

Rail: DANGEROUS GOODS.

UN number 1824

Proper shipping name SODIUM HYDROXIDE SOLUTION

Hazard class 8
Packing group II
Hazchem code 2R

#### IATA

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN number 1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8
Packing group | |

#### **IMDG**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea: DANGEROUS GOODS.

UN number 1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8
Packing group II
IMDG EMS Fire F-A
IMDG EMS Spill S-B

# 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

## **National regulations**

## <u>Australia</u>

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP) 6

# **International Inventories**

Revision date: 03-Jul-2020 **Revision Number** 1

**AICS** 

All the constituents of this material are listed on the Australian Inventory of Chemical

Substances.

Legend:

AICS - Australian Inventory of Chemical Substances

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

# **16. OTHER INFORMATION**

Reason(s) For Issue: First Issue Primary SDS

**Issuing Date:** 03-Jul-2020

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Skin designation

Carcinogen

#### Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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

Revision date: 03-Jul-2020 Revision Number 1

materials or in any process, unless specified in the text This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

**End of Safety Data Sheet**