SAFETY DATA SHEET

Revision date: 31-Mar-2021



Revision Number 3

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier	
Product Name	REZOLV 10FG
Product Code(s)	00000050576
Other means of identification	
UN number	1824
Pure substance/mixture	Mixture
Recommended use of the chemical	and restrictions on use
Recommended use	Food additive. Neutralising agent.
Uses advised against	No information available.

Supplier

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

Label elements

Corrosion Exclamation mark

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

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Mixture

Chemical name	CAS No.	Weight-%
Sodium hydroxide	1310-73-2	10-<30
Non hazardous component(s)	-	to 100

4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
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 effe	ects, both acute and delayed			
Symptoms	Irritation/Corrosion.			
Indication of any immediate medica	al attention and special treatment needed			
Note to physicians	Treat symptomatically. Can cause corneal burns.			
5. FIRE FIGHTING MEASU	RES			
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 hazard. Wear protective gloves/clothing and eye/face protection. Contact with metals may evolve flammable hydrogen gas. 			
Special protective actions for fire-f	ighters			
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	EMEASURES			
Personal precautions, protective e	guipment 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.			
For emergency responders	Use personal protection recommended in Section 8.			
Environmental precautions				
Environmental precautions	Local authorities should be advised if significant spillages cannot be contained.			
Methods and material for containm				
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	ng 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 Scheduled 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. Aluminium. 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/m³

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.

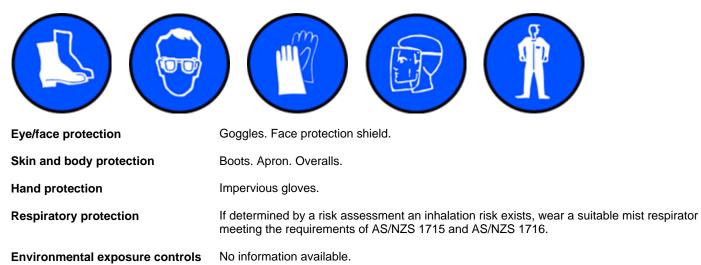
Appropriate engineering controls

Engineering controls	Eyewash stations. 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 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.



9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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Physical state	Liquid	
Appearance	Clear to Slightly turbid	
Color	Colourless	
Odor	No information available.	
Odor threshold	No information available.	
Property	Values	Remarks • Method
рН	>10.5 (1% sol.)	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	119°C (25%)	None known
Flash point	Not applicable	None known
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 pressure	No data available	None known
Vapor density	No data available	None known
Relative density	ca. 1.25	None known
Water solubility	Miscible in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	Not applicable	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None 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	t None.		
Sensitivity to static discharge	None.		
Possibility of hazardous reactions			
Possibility of hazardous reactions	Contact with metals (aluminum, zinc, tin) may release hydrogen gas. Reacts with ammonium salts, evolving ammonia gas. Reacts readily with various reducing sugars (i.e. fructose, galactose, maltose, dry whey solids) to produce carbon monoxide. Take precautions including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.		
Conditions to avoid			
Conditions to avoid	Do not contaminate food or feed stuffs.		
Incompatible materials			
Incompatible materials	Ammonium salts. Aluminium. 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 management of toxicity	Draduat Information	

Numerical measures of toxicity - Product Information No information available.

Numerical measures of toxicity - Component Information

	0 11 050					
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50			
Sodium hydroxide	-	= 1350 mg/kg (Rabbit)	-			
See section 16 for terms and abb	See section 16 for terms and abbreviations					
Delayed and immediate effects	as well as chronic effects fror	n short and long-term exposure	<u>e</u>			
Skin corrosion/irritation	Causes burns. Classificati data.	Causes burns. Classification is based on mixture calculation methods based on component				
	data.	Uala.				
Serious eye damage/eye irritati	on Causes serious eye dama on component data.					
Respiratory or skin sensitizatio	n No information available.	No information available.				
Germ cell mutagenicity	No information available.	No information available.				
Carcinogenicity	No information available.					
Reproductive toxicity	No information available.	No information available.				
STOT - single exposure	May cause respiratory irrit	May cause respiratory irritation.				
STOT - repeated exposure	No information available.	No information available.				
Aspiration hazard	No information available.	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

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

<u>ADG</u>

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

<u>IATA</u>

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	II

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

Australia

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

AICS

All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals.

Legend:

- Australian Inventory of Industrial Chemicals

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: 5 Yearly Revised Primary SDS

Issuing Date: 31-Mar-2021

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/PERSONA	AL PROTECTION	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	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 Australian Industrial Chemicals Introduction Scheme (AICIS) 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

Disclaimer

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 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