

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

1 Identification

Product Name: ACID-FLO**Other Means of Identification:****Other Name:** Mixture.**Recommended Use of the Chemical and Restriction on Use:** Acid detergent.**Details of Manufacturer or Importer:**

DASCO Pty Ltd
24 - 26 Helen Street
Heidelberg Heights VIC 3081

Phone Number: 03 9459 7004**Emergency telephone number:** National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



corrosion

Skin Corrosion/Irritation 1B H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.

Signal Word Danger**Hazard Statements**

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P260 Do not breathe dusts or mists.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

Product Name: ACID-FLO

(Contd. of page 1)

Hazardous Components:		
CAS: 7697-37-2	Nitric acid ⚠ Oxidising Liquids 2, H272; ⚠ Skin Corrosion/Irritation 1A, H314	10 - 30%
CAS: 5329-14-6	Sulfamic acid ⚠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; Aquatic Chronic 3, H412	<10%

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause irritation or burns to the nose, throat and lungs. May cause coughing, choking and breathing difficulties. May cause chemical pneumonitis and pulmonary oedema.

Skin Contact: Causes severe skin burns. May cause yellowish skin discolouration or skin rash.

Eye Contact: Causes serious eye damage. May cause permanent eye damage.

Ingestion: May cause irritation or burns to the mouth, throat and gastrointestinal system. May cause increased salivation, thirst, difficulty swallowing, chills and shock. Large doses may be fatal.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water fog or fine water spray.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of nitrogen and sulphur.

This product is not flammable, however contact with combustible materials may cause fire.

Contact with metals may generate flammable hydrogen gas.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Do not touch or walk through spilt product. Product is slippery if spilt.

Environmental Precautions:

In the event of a major spill, contain and prevent spillage from entering drains or water courses.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

Product Name: ACID-FLO

(Contd. of page 2)

Methods and Materials for Containment and Cleaning Up:

For small spills: neutralise spills by covering liberally with soda ash or lime. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb spill with inert absorbent material and transfer to a suitable container for disposal.

For large spills: absorb spill with sand, earth or other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Will react violently with bases, metals and combustible materials.

Contact with carbonates may generate carbon dioxide.

Contact with metals may generate flammable hydrogen gas and toxic and corrosive nitrogen dioxide.

Contact with combustible materials may cause fire.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Only store in original container. Protect containers from physical damage. Keep away from bases (including carbonates and bicarbonates), active metals such as aluminium zinc or copper and combustible materials such as wood, paper or organic materials.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 7697-37-2 Nitric acid**

WES	STEL: 10 mg/m ³ , 4 ppm TWA: 5.2 mg/m ³ , 2 ppm
-----	--

Engineering Controls:

Ensure adequate ventilation of the workplace. Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below the limits.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Rubber or plastic gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Impervious overalls, plastic apron, sleeves and boots should be worn when handling industrial quantities. See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

Product Name: ACID-FLO

(Contd. of page 3)

9 Physical and Chemical Properties

Appearance:

Form: Slightly frothing liquid
Colour: Clear
Odour: Slight smell of surfactant and nitric acid.

Odour Threshold: No information available**pH-Value:** Very acidic**Melting point/freezing point:** No information available**Initial Boiling Point/Boiling Range:** > 100 °C**Flash Point:** None**Flammability:** Product is not flammable.**Auto-ignition Temperature:** No information available**Decomposition Temperature:** No information available**Explosion Limits:****Lower:** Not applicable**Upper:** Not applicable**Vapour Pressure:** No information available**Density:** No information available**Relative Density:** 1.1**Vapour Density:** No information available**Evaporation Rate:** No information available**Solubility in Water:** Miscible in all proportions**Partition Coefficient (n-octanol/water):** No information available**% Volatiles by Volume:** About 92 %**VOC:** None

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.

Will react violently with bases, metals and combustible materials.

Contact with carbonates may generate carbon dioxide.

Contact with metals may generate flammable hydrogen gas and toxic and corrosive nitrogen dioxide.

Contact with combustible materials may cause fire.

Chemical Stability: Stable under normal conditions.**Conditions to Avoid:** Physical damage to container.**Incompatible Materials:**

Bases (including carbonates and bicarbonates), active metals such as aluminium zinc or copper and combustible materials such as wood, paper or organic materials.

Hazardous Decomposition Products: Oxides of nitrogen and sulphur.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 5329-14-6 Sulfamic acid**Oral LD₅₀ 3160 mg/kg (rat)

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

Product Name: ACID-FLO

(Contd. of page 4)

CAS: 7697-37-2 Nitric acid		
	LC ₅₀ /4 h	67 ppm (rat)
	LDLo	110 mg/kg (human) (man)
Oral	LDLo	430 mg/kg (human)

Acute Health Effects**Inhalation:**

May cause irritation or burns to the nose, throat and lungs. May cause coughing, choking and breathing difficulties. May cause chemical pneumonitis and pulmonary oedema.

Skin: Causes severe skin burns. May cause yellowish skin discolouration or skin rash.

Eye: Causes serious eye damage. May cause permanent eye damage.

Ingestion:

May cause irritation or burns to the mouth, throat and gastrointestinal system. May cause increased salivation, thirst, difficulty swallowing, chills and shock. Large doses may be fatal.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Prolonged or repeated exposure to low levels of vapour may cause erosion of the teeth, chronic bronchitis and possible lung damage.

Existing Conditions Aggravated by Exposure: Pre-existing lung and skin disorders.

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity: No further relevant information available.

Aquatic toxicity: No further relevant information available.

Persistence and Degradability: No further relevant information available.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

Product Name: ACID-FLO

(Contd. of page 5)

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number	UN1760
ADG, IMDG, IATA	
Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (Nitric acid, sulphamic acid)
ADG, IMDG, IATA	
Dangerous Goods Class	
ADG Class:	8 Corrosive substances.
Packing Group:	
ADG, IMDG, IATA	II
EMS Number:	F-A,S-B
Hazchem Code:	2X
Special Provisions:	274
Limited Quantities:	1L
Packagings & IBCs - Packing Instruction:	P001, IBC02
Packagings & IBCs - Special Packing Provisions:	Not applicable
Portable Tanks & Bulk Containers - Instructions:	T11
Portable Tanks & Bulk Containers - Special Provisions:	TP2, TP27

15 Regulatory Information**Australian Inventory of Chemical Substances:**

CAS: 7697-37-2	Nitric acid
CAS: 5329-14-6	Sulfamic acid
CAS: 7732-18-5	Water

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

16 Other Information**Date of Preparation or Last Revision:** 02.09.2019**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds
 LC₅₀: Lethal concentration, 50 percent
 LD₅₀: Lethal dose, 50 percent
 IARC: International Agency for Research on Cancer

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

Product Name: ACID-FLO

(Contd. of page 6)

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Oxidising Liquids 2: Oxidising liquids, Hazard Category 2

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016”

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. DASCO Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.