Safety Data Sheet
according to WHS Regulations

Print date: 10.09.2024 Revision date: 09.09.2024

1 Identification

Product Name: GRUNT

Other Means of Identification: Mixture

Other Name: Potassium hydroxide solution containing sodium hypochlorite

Recommended Use of the Chemical and Restriction on Use: Cleaning solution

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 Poisons 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 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.


Environment

Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

Acute Toxicity (Oral) 4	H302 Harmful if swallowed.

Signal Word Danger

Hazard Statements
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 2)

Safety Data Sheet
according to WHS Regulations

Print date: 10.09.2024 Revision date: 09.09.2024

Product Name: GRUNT

(Contd. of page 1)

P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplementary (non-GHS) hazard statements recognised in Australia
AUH031 Contact with acids liberates toxic gas.

3 Composition and Information on Ingredients

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

Hazardous Components:		
CAS: 1310-58-3	Potassium hydroxide Skin Corrosion/Irritation 1A, H314; Acute Toxicity (Oral) 4, H302	25-<30%
CAS: 7681-52-9	Sodium hypochlorite Skin Corrosion/Irritation 1B, H314; Aquatic Chronic 1, H410; STOT SE 3, H335	5-<10%

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. 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 immediate medical attention.

Eye Contact:
In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek immediate medical attention.

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

Symptoms Caused by Exposure:
Inhalation: May cause respiratory irritation.
Skin Contact: Causes severe skin burns.
Eye Contact: Causes serious eye damage.
Ingestion: Harmful if swallowed. Causes burns to the mouth, nose, throat and oesophagus. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water fog or fine spray.

Specific Hazards Arising from the Chemical:
Hazardous combustion products include oxides of potassium, chlorine gas, hydrogen gas, and hydrogen chloride.
Product is not flammable.
Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.
Prevent run-off from fire fighting entering drains or water courses.
HAZCHEM Code: 2X

(Contd. on page 3)

Safety Data Sheet
according to WHS Regulations

Print date: 10.09.2024 Revision date: 09.09.2024

Product Name: GRUNT

(Contd. of page 2)

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, chemical resistant gloves, protective clothing and safety boots.
Evacuate all non-essential personnel from affected area. Do not breathe vapours or mists.

Environmental Precautions:
In the event of a major spill, prevent spillage from entering drains or water courses.
Inform respective authorities in case of seepage into water course or sewage system.

Methods and Materials for Containment and Cleaning Up:
Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.
Collect the spilled material and place into a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours or mists. 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 in original container, tightly closed when not in use. Protect from direct sunlight and heat. Keep away from acids, oxidising agents, ammonium compounds, nitro compounds, organic halides, wood, and active metals such as aluminium, tin, or zinc.

8 Exposure Controls and Personal Protection

Exposure Standards:	
CAS: 1310-58-3 Potassium hydroxide	
WES	Peak limitation: 2 mg/m³

Engineering Controls:
Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:
Use an approved particulate respirator (filter type P) 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.
Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:
Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

(Contd. on page 4)

Safety Data Sheet
according to WHS Regulations

Print date: 10.09.2024 Revision date: 09.09.2024

Product Name: GRUNT

(Contd. of page 3)

9 Physical and Chemical Properties

Appearance:	
Form:	Liquid
Colour:	Clear pale yellow
Odour:	Slight chlorine
Odour Threshold:	No information available
pH-Value:	~13 (1% in water)
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	>100 °C
Flash Point:	No information available
Flammability (solid, gas):	Not applicable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density at 25 °C:	1.266
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Direct sunlight and heat.

Incompatible Materials:
Acids, oxidising agents, ammonium compounds, nitro compounds, organic halides, wood, and active metals such as aluminium, tin, or zinc.

Hazardous Decomposition Products:
Oxides of potassium, chlorine gas, hydrogen gas, and hydrogen chloride.

11 Toxicological Information

Toxicity:

LD50/LC50 Values:		
CAS: 1310-58-3 Potassium hydroxide		
Oral	LD50	333-388 mg/kg (Rattus norvegicus (rat))
CAS: 7681-52-9 Sodium hypochlorite		
Oral	LD50	5,800 mg/kg (Mus musculus (mouse))

Acute Health Effects
Inhalation: May cause respiratory irritation.
Skin: Strong caustic effect on skin and mucous membranes.
Eye: Strong caustic effect.
Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye damage.

(Contd. on page 5)

Safety Data Sheet
according to WHS Regulations

Print date: 10.09.2024 Revision date: 09.09.2024

Product Name: GRUNT

(Contd. of page 4)

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

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: No data associated with long term health effects.

Existing Conditions Aggravated by Exposure: No data available.

12 Ecological Information

Ecotoxicity:

Aquatic toxicity:
Toxic to aquatic life with long lasting effects.

CAS: 1310-58-3 Potassium hydroxide	
EC50/15 minutes	22 mg/l (bacterial)
LC50/96 h	45.4 mg/l (Oncorhynchus mykiss (rainbow trout))
LC50/48 h	40 mg/l (Daphnia magna (water flea))
CAS: 7681-52-9 Sodium hypochlorite	
EC50/48 h	0.035 mg/l (Daphnia magna (water flea))
LC50/96 h	35 mg/l (Oncorhynchus mykiss (rainbow trout))

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

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

Special Precautions for Landfill or Incineration:
Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number
ADG, IMDG, IATA UN3266

Proper Shipping Name
ADG, IMDG, IATA CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE, Sodium hypochlorite), ENVIRONMENTALLY HAZARDOUS, MARINE POLLUTANT

Dangerous Goods Class
ADG Class: 8

(Contd. on page 6)

Safety Data Sheet
according to WHS Regulations

Print date: 10.09.2024 Revision date: 09.09.2024

Product Name: GRUNT

(Contd. of page 5)

Packing Group: **ADG, IMDG, IATA**	I
Marine pollutant:	Symbol (fish and tree)
EMS Number:	F-A,S-B
Hazchem Code:	2X
Special Provisions:	274
Excepted quantities (EQ):	E0
Limited Quantities:	0
Packagings & IBCs - Packing Instruction:	P001
Portable Tanks & Bulk Containers - Instructions:	T14
Portable Tanks & Bulk Containers - Special Provisions:	TP2, TP27

15 Regulatory Information

Australian Inventory of Industrial Chemicals: All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 09.09.2024

Prepared by: MSDS.COM.AU Pty Ltd www.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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
Acute Toxicity (Oral) 4: Acute toxicity – Category 4
Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A
Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B
Eye Damage 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

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 - July 2020”.
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