

VIRTUE +

# Integral Clean

Safety Data Sheet

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Connect online  
@ Virtue Plus

## 1 Identification

**Product Name: INTEGRAL CLEAN**

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Concentrated Cleaner.

**Details of Manufacturer or Importer:**

Virtue Plus  
13 Fawkner Ave,  
Kings Meadows TAS 7249

**Phone Number:** (03) 6344 8400

**Emergency telephone number:** 1800 205 506, +64 7958 2372

## 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.

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



STOT SE 3      H335 May cause respiratory irritation.

**Signal Word** Danger

**Hazard Statements**

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

**Precautionary Statements**

P260 Do not breathe dusts or mists.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

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## 3 Composition and Information on Ingredients

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

CAS: 1310-73-2	Sodium hydroxide ⚠ Skin Corrosion/Irritation 1A, H314; ⚠ STOT SE 3, H335	25 - <50%
CAS: 10213-79-3	Sodium metasilicate pentahydrate ⚠ Corrosive To Metals 1, H290; Skin Corrosion/Irritation 1B, H314; ⚠ Acute Toxicity (Oral) 4, H302; STOT SE 3, H335	10 - <20%
CAS: 29329-71-3	Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt ⚠ Acute Toxicity (Oral) 4, H302; Serious Eye Damage/Irritation 2A, H319	1 - <10%
CAS: 497-19-8	Sodium carbonate ⚠ Serious Eye Damage/Irritation 1, H318; ⚠ STOT SE 3, H335	1 - <10%

## 4 First Aid Measures

**Inhalation:**

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

**Skin Contact:**

In case of skin contact, immediately 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 medical attention if symptoms occur.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation, shortness of breath and coughing.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage.

Ingestion: May cause gastrointestinal irritation and nausea.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

Water fog, foam, ABC powder or carbon dioxide.

Use fire extinguishing methods suitable to surrounding conditions.

**Specific Hazards Arising from the Chemical:**

No hazardous decomposition products known.

Product is not flammable.

Containers close to fire should be removed if safe to do so.

**Special Protective Equipment and Precautions for Fire Fighters:**

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

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### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

**Environmental Precautions:**

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

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and sweep into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Rinse spill area with plenty of water.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust, mist or vapours.

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 extreme heat or cold and atmospheric moisture. Keep away from acids and oxidising agents. Corrosive to metals.

Store in areas with alkaline-resistant floors.

Do not store in aluminium or zinc containers. Use stainless steel containers.

Recommended storage temperature: 5 - 25 °C.

Storage life: 3 years.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**

**CAS: 1310-73-2 Sodium hydroxide**

WES Peak limitation: 2 mg/m<sup>3</sup>

**Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

**Respiratory Protection:**

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Butyl rubber or nitrile 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.

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**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.

## 9 Physical and Chemical Properties

**Appearance:**

**Form:** Compact mass  
**Colour:** White to cream coloured.  
**Odour:** Product specific  
**Odour Threshold:** No information available  
**pH-Value at 20 °C:** ≤14  
 Strongly alkaline

**Melting point/freezing point:** Not applicable**Initial Boiling Point/Boiling Range:** Not applicable**Flash Point:** >200 °C**Flammability:** Product is not flammable.**Auto-ignition Temperature:** Not applicable**Decomposition Temperature:** No information available**Explosion Limits:****Lower:** Not applicable**Upper:** Not applicable**Vapour Pressure:** Not applicable**Density:** ~1.65 g/cm<sup>3</sup>**Vapour Density:** Not determined**Evaporation Rate:** Not applicable**Solubility in Water:** Soluble**Partition Coefficient (n-octanol/water):** No information available**Viscosity:** Not determined

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Extreme heat or cold and atmospheric moisture.**Incompatible Materials:** Acids and oxidising agents. Corrosive to metals.**Hazardous Decomposition Products:** No hazardous decomposition products known.

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****CAS: 1310-73-2 Sodium hydroxide**Oral LD<sub>50</sub> 2000 mg/kg (rat)**CAS: 10213-79-3 Sodium metasilicate pentahydrate**Oral LD<sub>50</sub> 847 mg/kg (rat)Dermal LD<sub>50</sub> >5000 mg/kg (rat)Inhalation LC<sub>50</sub> >2060 mg/m<sup>3</sup> (rat)

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<b>CAS: 497-19-8 Sodium carbonate</b>		
Oral	LD <sub>50</sub>	4090 mg/kg (rat)

**Acute Health Effects****Inhalation:** May cause respiratory irritation, shortness of breath and coughing.**Skin:** Causes severe skin burns.**Eye:** Causes serious eye damage.**Ingestion:** May cause gastrointestinal irritation and nausea.**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:** No information available**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:** No information available

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:****CAS: 1310-73-2 Sodium hydroxide**LC<sub>50</sub>/96 h 35 - 189 mg/l (fish)EC<sub>50</sub>/48 h 40.4 mg/l (daphnia)**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.**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**

UN1823

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<b>Proper Shipping Name ADG, IMDG, IATA</b>	SODIUM HYDROXIDE, SOLID
<b>Dangerous Goods Class ADG Class:</b>	8 Corrosive substances.
<b>Packing Group: ADG, IMDG, IATA</b>	II
<b>EMS Number:</b>	F-A,S-B
<b>Hazchem Code:</b>	2W
<b>Limited Quantities:</b>	1 kg
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P002, IBC08
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	B2, B4
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T3
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP33

## 15 Regulatory Information

### Australian Inventory of Chemical Substances:

CAS: 1310-73-2	Sodium hydroxide
CAS: 29329-71-3	Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt
CAS: 497-19-8	Sodium carbonate

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

## 16 Other Information

**Date of Preparation or Last Revision:** 20.09.2018**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://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)  
 LC<sub>50</sub>: Lethal concentration, 50 percent  
 LD<sub>50</sub>: 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)  
 Corrosive To Metals 1: Corrosive to metals – Category 1  
 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  
 Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1  
 Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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**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"

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