SAFETY DATA SHEET (SDS)

According to EC Directive 1907/2006 as amended by Regulation (EU) No 453/2010 & 2015/830

1. IDENTIFICATION OF SUBSTANCE & COMPANY IDENTIFICATION:

1.1 Product **SANITABS™ Plus**
Product Code J19x
1.2 Use Effervescent Chlorine Sanitizing Tablets.

1.3 Company: Amity Ltd
Address: Libra House, West Street,
Worsbrough Dale,
BARNSLEY, S YORKS, S70 5PG
UNITED KINGDOM
Telephone: 01226 770787
Fax: 01226 291936
E-mail: sales@amityinternational.com
Web site: www.amityinternational.com
www.virusolve.com

1.4 Emergency Information: TEL NUMBER +44 (0) 1226 770787 (9.00am - 5.00pm Mon-Thurs, 9.00am – 3.30pm Fri UK time)

2. HAZARDS IDENTIFICATION.

2.1 Classification of the product (Substance or Mixture)

Classification:

Physical Hazards Oxid solid 2; H272 May intensify fire; oxidiser

Health hazards Acute Tox 4; H302 Harmful if Swallowed,
Eye Irrit 2; H319 Causes serious eye irritation,
STOT SE 3; H335 May cause respiratory irritation,

Environmental hazards Aquat Acute 1; H400 Very toxic to aquatic life
Aquat Chronic 1; H410 Very toxic to aquatic life with long lasting effects,

2.2 Label elements

Pictogram:

Signal Word DANGER

Hazard statements: see 2.1 and 2.3

GHS Precautionary Phrases

P264 Wash thoroughly after handing
P270: Do not eat, drink or smoke when using this product.
P273; Avoid release to the environment
P280 Wear protective gloves/eye protection.

2.3 Other hazards

PBT: This product is not identified as a PBT/vPvB substance.
EUH031 Contact with acids liberates toxic gas,

EMERGENCY OVERVIEW:

White tablet form. Slight chlorine odour. Product is not flammable itself, but contact with combustible material may cause fire. Product combustible if dehydrated by drying. If insufficient water is used there may be an explosion hazard associated with hot damp material. Contact with water will release chlorine fumes.

3. COMPOSITION AND INFORMATION ON INGREDIENTS.

General Description: A pelletized solid

3.2 Mixtures - Hazardous Constituents

Adipic acid (hexane-1,6-dioic acid)	EU Index no Amity Ref RMP 1121	Content 10 to 30 %w/w
CAS No 2893-78-9	EINEC No 204-673-3	REACH No 01-2119457561-38
Classification (GHS, EC Reg 1272/2008) Eye Irrit 2; H319	Classification (67/548/EEC or 1999/45/EC) Xi, R36	

Triclosene, sodium dihydrate (sodium dichloroisocyanurate, NaDDC)	EU Index no Amity Ref RMP 5078	Content 60 to 90 %w/w
CAS No 2893-78-9	EINEC No 220-767-7	REACH No 01-2119489371-33
Classification (GHS, EC Reg 1272/2008) Ox sol 2; H272 Acute Tox 4; H302 Eye Irrit 2; H319 STOT SE 3; H335 Aquat Acute 1; H400 Aquat chronic 1; H410 EUH 031	Classification (67/548/EEC or 1999/45/EC) O, R8 Xn, R22 R31 Xi, R36/37 N, R50/53	

p-toluenesulphonate, sodium	EU Index no Amity Ref RMP 3603	Content 1 to 10 %w/w
CAS No 657-84-1	EINEC No 211-522-5	REACH No 01-2119518173-47
Classification (GHS, EC Reg 1272/2008) Eye Irrit 2; H319	Classification (67/548/EEC or 1999/45/EC) Xi, R36	

For full text of H statements given in this Section refer Section 16.

3.3 Other Components

Components not listed at section 3.2 are either non hazardous or present at levels below that requiring detailed disclosure. Common sense precautions should be observed during handling and use

Ingredients according to EC Directive 648/2004 Annex VII

Not applicable

4. FIRST AID

4 .1 Description of First Aid measures:

General: If you feel unwell seek medical advice (show this information or the container label where possible).

Eye: Irrigate with flowing water immediately and continuously for at least 15 minutes. Seek medical attention if irritation persists.

Skin: Wash affected area with soap and water. If irritation persists, seek medical attention. Launder contaminated clothing before re-use.

Ingestion: Do not induce vomiting, unless instructed to do so by medical personnel. Rinse mouth with water and give water or milk to drink. Obtain medical attention if discomfort persists.

Inhalation: Remove from exposure. Keep warm and at rest. If recovery is not evident or distress continues obtain medical attention.

4.2 Most Important Symptoms:

Effects due to overexposure when:

In contact with eyes: Irritation and redness. May cause permanent damage if not dealt with promptly.

In contact with skin: Irritation/pain. Degreases skin leading to redness/cracking. Prolonged contact causes damage.

Inhaled: Inhalation of dust may cause irritation, coughing and sore throat.

Ingested: Ingestion would result in irritation, soreness of mouth/throat, discomfort, abdominal pain and vomiting. Burns to the gastrointestinal tract may result.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: Treat by observation and supportive measures as indicated by the patient's condition.

No specific antidote.

5. FIRE FIGHTING MEASURES.

5.1 Extinguishing Media

Suitable Extinguishing Media: Pressurised water or dry powder.
Media to be avoided: Do not use dry fire extinguishers containing ammonium compounds.

5.2 Special Hazards present in the mixture

Special Hazards No unusual fire or explosive hazards
Hazardous combustion products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to:
Oxides of carbon, Chlorine, hydrogen chloride

5.3 Advice for fire fighters

Protective actions during fire fighting: Keep people away. Smoke from fires is toxic; take precautions to protect personnel from exposure. In the event of an adjacent fire, cool containers with water spray.
Special protective equipment: Wear protective clothing and self contained breathing equipment (SCBA).

6. ACCIDENTAL RELEASE MEASURES.

6.1 Personal protection, protective equipment and emergency procedures

Personal protection**:** Wear suitable protective clothing including eye protection, gloves and skin protection.
Ensure adequate ventilation. Evacuate personnel (Large spillage).

6.2 Environmental precautions:

Keep large spills out of sewers. If contamination of drainage systems or watercourses is unavoidable, immediately inform appropriate authorities.

6.3 Methods and material containment and cleaning up

Clean up: Contain and remove contaminated material to plastic containers and thence to a safe location for subsequent disposal.
If tablets become damp they will effervesce, evolving carbon dioxide and may decompose to give off chlorine fumes; transfer spillage to unsealed plastic bags avoiding any large masses of material within the bags and remove to waste ground for immediate treatment/disposal
Final traces or small spillages may be flushed away to foul sewer with water.

6.4 Reference to other sections

For personal protection see Section 8
For waste disposal see Section 13

7. HANDLING AND STORAGE.

7.1 Precautions for safe handling

Usage precautions: Use only in accordance with label instructions in well ventilated areas. Keep away from children. Avoid spilling and do not mix with other chemicals. Avoid contact with skin and eyes. Avoid breathing any dust
Do not return unused material to original container.
Advice on general hygiene
Wear protective clothing. When using do not eat drink or smoke. Wash promptly with soap and water if skin becomes contaminated

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in a cool, dry, well-ventilated area between 5 °C and 35 °C. Keep containers closed when not in use.
Never store damp or contaminated material. Product is moisture sensitive. Avoid high humidity levels. Do not allow water to get into container. Keep away from fire, heat, flame & direct sunlight.
Avoid contact with incompatible materials, see section 10.

8. EXPOSURE CONTROL/PERSONAL PROTECTION.

8.1 Workplace exposure guidelines:

STATE	Component	LTE (8h TWA)	STE (15 Minute TWA)	Comment
UK HSE EH40	Chlorine	1.5 mg/m^3	2.9 mg/m^3	

DNEL for workers To be advised

8.2 Exposure controls:

Protective equipment

EXPOSURE CONTROL/PERSONAL PROTECTION (Continued)

Engineering controls: Good general ventilation should be sufficient for most conditions.
Eye/face protection: Use chemical goggles or face shield where dust concentrations are high or splash are a risk.
Skin protection: Use suitable gloves, e.g. PVC, rubber when handling bulk quantities.
Respiratory protection: Where any dust in the breathing zone cannot be controlled with ventilation, wear an officially approved respirator for protection against airborne dust. Protect against high concentrations of chlorine fumes if product is moistened.
Hygiene measures: When using, do not eat, drink, or smoke. Wash hands after use

9. PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties

Property		Typical Value
APPEARANCE		White flat bevelled tablets
ODOUR		Characteristic chlorine odour
pH	@ 20 ºC in solution	4.0 to 6.0
DENSITY	g/cm^3 @ 20 ºC	Not established
ACTIVE CONTENT	g/tablet	1.5
SOLUBILITY	g/L @ 20 ºC	Completely soluble
PARTITION COEFFICIENT	Log Pow (Octanol/water)	Not established
FLAMMABILITY	°C Open Cup, Explosivity - lower limit % - Upper limit % Auto ignition Temp, ºC	None Not applicable Not applicable Not established
THERMAL DECOMPOSITION	ºC	240

9.2 Other information
No data

10. STABILITY AND REACTIVITY

10.1 Reactivity Reacts with acids and in water to release chlorine
10.2 Chemical stability: Stable under recommended storage and use conditions. Decomposes in contact with water
10.3 Possibility of hazardous reactions: none known
10.4 Conditions to avoid: Avoid high temperatures, heat. Component decomposes at temperatures above 240^{0}C liberating toxic gases.
10.5 Incompatible materials: Contact with water liberates chlorine and with nitrogen compounds may cause explosion. Avoid organic materials, oils, grease, sawdust, reducing agents, nitrogen containing compounds, calcium hypochlorite, other oxidizers, acids, alkalis, cationic and certain non-ionic surfactants.
10.6 Hazardous decomposition products: Decomposes at temperatures above 240^{0}C

11. TOXICOLOGICAL INFORMATION:

11.1 Toxicological effects:
Components:

Tablet compound	LD50 (Rat, Oral)	1825 mg/kg
	LD50 (Mouse, Oral)	992 mg/kg
	LD50 (Rabbit, Dermal)	>20,000 mg/kg
Sodium Toluene Sulphonate	LD50 (Rat, Oral)	7000 mg/kg
	LD50 (Rabbit, Dermal)	2000 mg/kg

Mixture: No significant health hazard when properly used for the application it was designed for.
See section 4 for exposure symptoms.
Not known to be sensitizing.
Not classified as carcinogenic. Not Mutagenic (Ames test negative)
Irritating to Eyes (Draze test – rabbit) – severe irritation with danger of severe injury

Route of exposure:
Dermal or eye contact,
Ingestion or inhalation

12. ECOLOGICAL INFORMATION.

12.1 Ecotoxicity

Tablet compound	EC50 (Daphnia magna, 48h)	<1 mg/L
Sodium Toluene Sulphonate	EC50 (Daphnia magna, 48h)	1000 mg/L

12.2 Mobility

Miscible in water. No information on soil mobility.

12.3 Degradation and Persistence:

Triclosene-sodium is highly toxic to fish and aquatic organisms. Do not discharge into lakes, ponds, streams or public water unless in accordance with the permit of official regulations.
Product is expected to be substantially removed by biological treatment processes

12.4 Bioaccumulative potential

The product does not contain any substances that have potential for bioaccumulation.

12.5 PBT & vPvB Assessment

Does not contain any PBT or vPvB substances

12.6 Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS.

General: Do not discharge into surface drains, on the ground or into any body of water.
Disposal Methods: Do not mix with other chemical wastes. All disposal methods must be in compliance with local laws and regulations. (Regulations may vary in different locations.)
Small quantities may be disposed of by the foul sewer where it will be successfully treated by the local water treatment plant.

For unused and uncontaminated product, the preferred disposal options include sending to a licensed, permitted recycler or reclaimer.
If contaminated, dry incineration is recommended. Alternatively if tablets are contaminated or are moist then they should be transferred to waste ground, spread thinly and covered with a thin layer of earth; a smell of chlorine will be noted until the material as degraded. Keep people, vehicles and animals away from the disposal area.

14. TRANSPORT INFORMATION

14.1 UN No:
14.2 Proper Shipping Name:
14.3 Hazard Classification: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)
14.4 Packaging Group:
14.5 Environmental Hazard
Marine Pollutant:
14.6 Special Precautions Road transport notes: ADR/IMDG – Special provision 375
Air transport notes: ACAO/IATA -- Special provision A197

Label for Carriage: None

15. REGULATORY INFORMATION.

15.1 Safety, health and environment regulations/legislation specific for the substance/mixture

This Safety Data Sheet is provided in compliance with the European REACH Directive (1907/2006/EC) and is in agreement with the GHS (Globally Harmonised System) for the classification and labelling of Dangerous Chemicals. This safety data sheet is distributed solely for the purpose of the Health and Safety at Work Act 1974; included under this heading is article 10 of Directive 88/379/EEC.

All components that make up this product are registered, or are not required to be listed, with:
EUROPEAN INVENTORY OF NEW AND EXISTANT CHEMICAL SUBSTANCES (EINECS), and
TOXIC SUBSTANCES CONTROL ACT (TSCA).
REACH – Regulation 1907/2006/EC, The raw materials used within this preparation have been pre-registered in accordance with the requirements of REACH.

Regulatory References:
REGULATION (EC) 1272/2008 ON CLASSIFICATION, LABELLING AND PACKAGING.
UN Globally Harmonised System for Classification & Labelling GHS ST-SG-AC10-30
UK Occupational Exposure Limits Guidance Note EH40
EU Detergents Directive 648/2004

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been not been compiled for this mixture.

16. OTHER INFORMATION.

The data contained in this data sheet is based on Amity's present knowledge of the health and safety properties of the product, and is believed to be accurate and given in good faith.
The physical and chemical properties are typical values only and do not constitute the specification of the product, which will be agreed separately.
The data given here only applies when product is used for proper application(s). The product is not sold as suitable for applications other than those identified at section 1, usage as such may cause risks not mentioned in this sheet.

It is for the customer to satisfy itself on the suitability of the product for its own particular purpose. Amity gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded, except to the extent that law prevents such exclusion.

Hazard Phrases used in Sections 3 and not given at Section 2:

None

Risk Phrases used in Section 3

R8	Contact with combustible material may cause fire
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R36	Irritating to eyes
R36/37	Irritating to eyes and skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

The following definitions of terms and abbreviations may be used within this document:
NTP: National Toxicology Programme (US);
IARC: International Agency for Research on Cancer;
EINECS: European Inventory of New and Existent Chemical Substances;
OSHA: Occupational Safety & Health Administration (US);
OECD: Organisation for Economic Co-operation and Development;
ACGIH: American Conference of Governmental Industrial Hygienists;
CAS: Chemical Abstracts Number;
STOT SE Specific Target Organ Toxicity – Single Exposure
STOT RE Specific Target Organ Toxicity – Repeated Exposure
PBT: Persistent, Bio-accumulative and Toxic
vPvB: Very persistent and very bio-accumulative
OES: Occupational Exposure Standard.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
LTEL: Long Term Exposure Limit
STEL: Short Term Exposure Limit.
HSE: Health & Safety Executive (UK)
LEV: Local Exhaust Ventilation

It is the responsibility of the user to ensure safe working conditions. The health hazards and general information contained within this Material Safety Data Sheet are given as a guide to the precautions required to maintain a safe working environment.