SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: SHOCKWAVE TROPIC
- Product Part Number: SHKV

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Heavy duty cleaning agent for carpets and textiles. Professional use.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: SOLUTION (CORNWALL) LTD
- Address of Supplier: UNIT 1 WARREN ROAD INDIAN QUEENS CORNWALL TR9 6TL UK
- Telephone: +44(0)1209 204343
- Responsible Person: N. ROBERTSON-VOUSDEN
- Email: Operations@solution-uk.com

1.4 Emergency telephone number

- Emergency Telephone: +44(0)1209 204343 (8.30am - 5pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Skin Corr. 1B

2.2 Label elements



GHS05

- Signal Word: Danger

Hazard statements

H314 - Causes severe skin burns and eye damage.

Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P264 - Wash hands thoroughly after handling.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P363 - Wash contaminated clothing before reuse.
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 or doctor/physician.

SECTION 2: Hazards identification (....)

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

2.3 Other hazards

- Contains: Sodium metasilicate pentahydrate

SECTION 3: Composition/information on ingredients

3.2 Mixtures

SODIUM CARBONATE

CAS Number: 497-19-8
EC Number: 207-838-8
Concentration: 20-30%
Categories: Eye Irrit. 2
Symbols: GHS07
H Statements: H319

SODIUM METASILICATE PENTAHYDRATE

CAS Number: 10213-79-3
EC Number: 229-912-9
Concentration: 5-10%
Categories: Met. Corr. 1, Skin Corr. 1B, STOT SE 3
Symbols: GHS05, GHS07
H Statements: H290, H314, H335

DIPROPYLENEGLYCOL METHYLETHER

CAS Number: 34590-94-8
EC Number: 252-104-2
Concentration: 2-5%
Categories:

1-HEPTANOL, 2-PROPYL-,ETHOXYLATED (> 5 - <=10 EO)

CAS Number: 160875-66-1
EC Number:
Concentration: 2-5%
Categories: Acute Tox. 4, Eye Dam. 1
Symbols: GHS05, GHS07
H Statements: H302, H318

SECTION 4: First aid measures

4.1 Description of first aid measures

- Wash contaminated clothing before reuse.

SECTION 4: First aid measures (....)

Contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical advice

Contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Seek medical attention if irritation persists

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Give plenty of water to drink
Get medical advice/attention.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns to eyes and skin

4.3 Indication of any immediate medical attention and special treatment needed

- Immediately call a POISON CENTER or doctor/physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- May give off noxious and toxic fumes in a fire

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Avoid raising dust
- Remove contaminated clothing

6.2 Environmental precautions

- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures (....)

- Collect as much as possible in clean container for reuse or disposal
- Flush spill area with copious amounts of water

6.4 Reference to other sections

- See Section 13 for disposal

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Do not allow dust to accumulate on surfaces and equipment
- Avoid contact with skin and eyes
- Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed, in a cool, well ventilated place
- Store locked up.

7.3 Specific end use(s)

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

SODIUM CARBONATE

DNEL (Industry; inhalational, long term local effects): 10 mg/m³
DNEL (Consumer; inhalational, short term local effects): 10 mg/m³

SODIUM METASILICATE PENTAHYDRATE

DNEL (Industry: Dermal, long term):	1.49 mg/kg/day
DNEL (Industry: Inhalation, long term):	6.22 mg/m³
DNEL (Consumer: Dermal, long term):	0.74 mg/kg/day
DNEL (Consumer: Inhalation, long term):	1.55 mg/m³
DNEL (Consumer: Oral, long term):	0.74 mg/kg/day

DIPROPYLENEGLYCOL METHYLETHER

DNEL (Industry; dermal, long term systemic effects): 283 mg/kg/day
DNEL (Industry; inhalational, long term systemic effects): 308 mg/kg
DNEL (Consumer; dermal, long term systemic effects): 121 mg/kg/day
DNEL (Consumer; inhalational, long term systemic effects): 37.2 mg/m³
Long-term exposure limit (8-hour TWA): 50ppm (sk)
(sk)= may be absorbed through skin.

8.2 Exposure controls

SECTION 8: Exposure controls/personal protection (....)


Gloves


Goggles

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

Rubber gloves and tight fitting goggles are recommended.
Avoid inhalation of dust.
Ensure good ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Off-white powder
- Odour: Slight, fruity
- Boiling Point/Range: Not available
- Density: (bulk) 0.8 g/cm³ at 20 °C
- Flashpoint: Not applicable
- pH: 11.3 at 1 % concentration
- Physical state: Solid
- Completely soluble in water

9.2 Other information

- No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- No special requirements

10.5 Incompatible materials

Avoid contact with light metals such as aluminium, tin and zinc.
Do not mix with acids or strong oxidising agents.

10.6 Hazardous decomposition products

- Decomposition products may include carbon oxides

SECTION 11: Toxicological information

SECTION 11: Toxicological information (....)

11.1 Information on toxicological effects

Contact with eyes and skin can cause tissue burns.
Ingestion may cause burns to mouth, throat and oesophagus.
Inhalation of dust may cause irritation and burns to nose and throat, coughing and shortness of breath.

SODIUM CARBONATE

LD_{50} (oral, rat): 2,800 mg/kg
LD_{50} (skin, rat): 2,000 mg/kg
LC_{50} (inhalation, rat): 2,300 dust/mist mg/l

DIPROPYLENEGLYCOL METHYLETHER

LD_{50} (oral, rat): 8,740 mg/kg
LC_{50} (inhalation, rat): 3,404.47 mg/l
LD_{50} (dermal, rabbit): 9,510 mg/kg

1-HEPTANOL, 2-PROPYL-,ETHOXYLATED (> 5 - <=10 EO)

LD_{50} (oral, rat): 200-2000mg/kg

SECTION 12: Ecological information

12.1 Toxicity

DIPROPYLENEGLYCOL METHYLETHER

EC_{50} (daphnia): 1919 mg/l (48 hr)
LC_{50} (fish): >1000 mg/l (96 hr)
PNEC (Fresh water): 19 mg/l
PNEC (Marine water): 1.9 mg/l
PNEC (Sediment; fresh water): 70.2 mg/kg/day
PNEC (Sediment; marine water): 7.02 mg/kg/day
PNEC (Soil): 2.74 mg/kg/day
PNEC (STP): 4168 mg/l

1-HEPTANOL, 2-PROPYL-,ETHOXYLATED (> 5 - <=10 EO)

EC_{50} (daphnia): >100 mg/l (48 hr)
LC_{50} (fish): >100 mg/l (96 hr)
IC_{50} (algae): Unknown mg/l (72 hr)

SODIUM CARBONATE

EC_{50} (daphnia): 265 mg/l (48 hr)
LC_{50} (fish): 300 mg/l (96 hr)

SODIUM METASILICATE PENTAHYDRATE

EC_{50} (daphnia): 1700 mg/l (48 hr)

SECTION 12: Ecological information (....)

LC_{50} (fish):	210 mg/l (96 hr)
PNEC (Fresh water):	7.5 mg/l
PNEC (Marine water):	1 mg/l
PNEC (STP):	1000 mg/l
PNEC (Intermittent release):	7.5 mg/l

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulative potential

- Low bioaccumulation potential

12.4 Mobility in soil

- soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other adverse effects

- May cause acute effects in the environment

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

SECTION 14: Transport information

14.1 UN number or ID number

- UN No.:
- Not applicable

14.2 UN proper shipping name

- Proper Shipping Name:

Not classified as hazardous for transport

14.3 Transport hazard class(es)

- Hazard Class:

14.4 Packing group

- Packing Group:

14.5 Environmental hazards

Not classified as environmentally hazardous

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 14: Transport information (....)

- Not applicable

SECTION 15: Regulatory information

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

- The CLP Regulations apply in the UK

Detergents Regulation - Contains: less than 5% non-ionic surfactants, perfumes, enzymes; 5-15% sequestrants; more than 30% phosphates.

Contains no REACH substances with Annex XVII restrictions. Contains no substances in the REACH candidate list. Contains no REACH Annex XIV substances.
Contains no substance subject to Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals.
Contains no substances subject to Regulation (EU) No 1021/2019 on persistent organic pollutants.

15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H290: May be corrosive to metals. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Goods by Road
ATE Acute Toxicity Estimate
CAS Chemical Abstracts Service
CHIP Chemicals (Hazard Information and Packaging) Regulations—Directives 1999/45.EC and 67/548/EC
CLP Classification and Labelling of Chemicals—Regulation (EC) No. 1272/2008
CMR Carcinogenic-Mutagenic-Toxic for reproduction
DNEL Derived No Effect Level
EINECS European Inventory of Existing Commercial Chemical Substances
GHS Globally Harmonised System of Classification and Labelling of Chemicals
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods Code
LC50 Lethal Concentration, 50%
LD50 Lethal Dose, 50%
MARPOL International Convention for the Prevention of Pollution From Ships
NOEC No Observed Effect Concentration
NOAEL No Observed Adverse Effect Level
OEL Occupational Exposure Limit
PBT Persistent, Bioaccumulative, Toxic
PNEC Predicted No Effect Concentration
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
vPvB very Persistent, very Bioaccummulative
RID Convention concerning International Carriage by Rail

SECTION 16: Other information (....)

STP Sewage Treatment Plants
WEL Workplace Exposure Limit
VOC Volatile Organic Compound

--- end of safety datasheet ---