Safety data Sheet
SANIWAVE TOP 11 ULTRA

Safety data sheet dated 01/02/2019, revision 1

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

1.1. Product identifier Mixture
identification:
First name commercial: SANIWAVE TOP 11 ULTRA
1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use:
Detergent (for industrial and professional use)
Uses advised against:
All uses not indicated in the recommended uses
1.3. Details of the supplier of the safety data sheet
NAME OF THE SUPPLIER OF THE SAFETY DATA SHEET:
Wave Chemical Solutions srl
V.le Volta, 41 - 20090 Cusago (MI) ITALY
tel. +39 02 90 338 1 fax +39 02 90338 251
Competent person responsible for the safety data sheet:
info@wavechemicalsolutions.com
1.4. Emergency telephone number
CAV "Pediatric Hospital Bambino Gesù" - Rome - Tel. 06 68593726
Az. Osp. Univ. Foggia - Foggia - Tel. 0881 732326
Az. Osp. "TO. Cardarelli "- Naples - Tel. 081 7472870
CAV Policlinico" Umberto I "- Rome - Tel. 06 49978000
CAV Policlinico" A. Gemelli "- Rome - Tel. 06 3054343
Az. Osp. “Careggi” Medical Toxicology Unit - Florence - Tel. 055 7947819 CAV
National Toxicological Information Center - Pavia - Tel. 0382 24444 Niguarda
Cà Granda Hospital - Milan - Tel. 02 66101029
Papa Giovanni XXII Hospital - Bergamo - Tel. 800883300

Lecce V. Fazzi Hospital 0832-661374
Turin Molinette 011-6337637
CAV Osp. Maggiore - Operational Unit of Toxicology - Bologna - Tel. 051/6478955
Poison Control Center - University of Turin - Tel. 011/6337637
Genoa S. Martino Hospital 010-352808
Pordenone Osp. SM degli Angeli 0434-399698
La Spezia S. Andrea Hospital 0187-533296-7
Chieti SS Annunziata Hospital 087- 551219
Catania Garibaldi Hospital 095-7594032
Cesena M. Bufalini Hospital 0547-352612
Poison Control Center - Children's Institute - Trieste - Tel. 040/3785373

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture EC regulation criteria 1272/2008 (CLP):


Attention, Flam. Liq. 3, Flammable liquid and vapor. 

Attention, Eye Irrit. 2, Causes serious eye irritation.


Warning, STOT SE 3, May cause drowsiness or dizziness.

Physico-chemical effects harmful to human health and the environment: No other hazards
2.2. Label elements

Hazard pictograms:

Warning

Hazard statements:

H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Cautionary Tips:

P210 Keep away from heat, hot surfaces, sparks, open flames or other sources of ignition. Not smoking.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray. P280 Wear protective gloves / protective clothing / eye protection / face protection.
P312 Contact a doctor if you feel unwell.
P370 + P378 In case of fire: use CO2 fire extinguisher to extinguish.
P403 + P235 Store in a cool, well-ventilated place.

Special provisions:

None

It Contains:

propan-2-ol; isopropyl alcohol; isopropanol

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other dangers

VPvB Substances: None - PBT Substances: None

Other Hazards:

No other danger

SECTION 3: composition / information on ingredients

3.1. Substances

NA

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification: 60% - 80% propan-2-ol; isopropyl alcohol; isopropanol

Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7

2.6 / 2 Flam. Liq. 2 H225

3.3 / 2 Eye Irrit. 2 H319

3.8 / 3 STOT SE 3 H336

5% - 15% ethanol; ethyl alcohol

Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6

2.6 / 2 Flam. Liq. 2 H225

3.3 / 2 Eye Irrit. 2 H319

SECTION 4: first aid measures

4.1. Description of first aid measures In case of skin contact:

Immediately take off all contaminated clothing.
Immediately wash areas of the body that have come into contact with the product, even if only suspect, with plenty of running water and possibly soap.
Wash the body completely (shower or bath).
Remove contaminated clothing immediately and dispose of it safely.
In case of contact with the skin, wash immediately with plenty of water and soap.

In case of eye contact:

In case of contact with the eyes, rinse them with water for an adequate time and keeping the eyelids open, then immediately consult an ophthalmologist.
Protect the unharmed eye.

In case of ingestion:

Never induce vomiting. SEEK MEDICAL EXAMINATION IMMEDIATELY. In case of inhalation:

Take the injured person to fresh air and keep him warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Acute dose-dependent effects. Skin: irritation, delipidization Nervous system: in case of ingestion depression Eyes: irritation, corneal damage Upper airways: irritation Lungs: irritation
Chronic effects. Skin: irritation, delipidization Nervous system: headache, asthenia, depression Upper airways: irritation Lungs: irritation

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
Nobody

SECTION 5: firefighting measures

5.1. Fire fighting

Suitable extinguishing media: Foam
Extinguishing media which must not be used for safety reasons: Full water jet

5.2. Special hazards arising from the substance or mixture

Do not inhale the gases produced by the explosion and combustion. Combustion produces heavy smoke.

5.3. Advice for firefighters Use suitable respiratory equipment.

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN659) and Vigli del Fuoco boots (OH A29 or A30)
Collect the contaminated water used to extinguish the fire separately. Do not drain it into the sewer system.
If feasible in terms of safety, move undamaged containers from the immediate danger area.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures Wear personal protective equipment.
Remove any ignition sources. Move people to a safe place.
Consult the protective measures set out in points 7 and 8.

6.2. Environmental precautions

Prevent penetration into soil / subsoil. Prevent runoff into surface water or sewerage. Retain contaminated wash water and dispose of it.
In the event of gas leakage or penetration into waterways, soil or sewage system, inform the responsible authorities.
Suitable material for collection: absorbent, organic, sand

6.3. Methods and materials for containment and cleaning up

Mechanically collect the spilled material. Wash the floor with water after collecting the spread. Introduce the collected material in clean and labeled containers. If necessary, start the reclamation procedure envisaged pursuant to Legislative Decree 152/2006, part IV, title V.

6.4. Reference to other sections

See also paragraphs 8 and 13

SECTION 7: handling and storage

7.1. Precautions for Safe Handling

Avoid contact with skin and eyes, inhalation of vapors and mists. Do not use empty containers before they have been cleaned.
Before the transfer operations, make sure that there are no incompatible residual materials in the containers.
Contaminated clothing must be replaced before entering the dining areas. At work do not eat or drink.
See also paragraph 8 for the recommended protective devices.

7.2. Conditions for safe storage, including any incompatibilities Store in well-ventilated areas.
Store at temperatures below 20 ° C. Keep away from open flames and sources of heat. Avoid direct exposure to the sun.
Keep away from open flames, sparks and heat sources. Avoid direct exposure to the sun.
Keep away from food, drink and feed. Store in a cool, well-ventilated place.
Store away from incompatible materials such as perchlorates, peroxides, silver oxide, hydrogen peroxide, potassium, sodium, chlorine, permanganate or chromate in acid solutions, nitric acid, peroxides, calcium hypochlorite, chlorine oxides, silver nitrate , dipotassium dioxide, strong oxidants.
Store the product in the original containers; do not mix with other products. See also paragraph 10 below.
Indication for premises:
Fresh and adequately ventilated.

7.3. Specific end use (s) No particular use

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

ACGIH - TWA (8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impaired
OEL - TWA (8h): 350 mg / m3, 150 ppm - STEL: 600 mg / m3, 250 ppm
MAK - TWA (8h): 500 mg / m3, 200 ppm - STEL: 1000 mg / m3, 400

ppm ethanol; ethyl alcohol - CAS: 64-17-5

ACGIH - STEL: 1000 ppm - Notes: A3 - URT irr
MAK - TWA (8h): 960 mg / m3, 500 ppm - STEL: 1920 mg / m3, 1000 ppm
OEL - TWA (8h): 1000 mg / m3, 500 ppm - STEL: 1900 mg / m3, 1000 ppm

DNEL exposure limit values

ethanol; ethyl alcohol - CAS: 64-17-5

Professional worker: 1900 mg / m3 - Exposure: Human inhalation - Frequency: Acute local effects

Professional worker: 950 mg / m3 - Exposure: Human inhalation - Frequency: Chronic systemic effects

Professional worker: 343 mg / kg - Exposure: dermal - Frequency: Chronic systemic effects

PNEC exposure limit values

ethanol; ethyl alcohol - CAS: 64-17-5

Target: Food chain - Value: 0.72 g / kg Target: Land (agricultural) - Value: 0.63 mg / kg Target: Fresh water - Value: 0.96 mg / l Target: Sea water - Value: 0.79 mg / l

Target: Fresh water sediment - Value: 3.6 mg / kg

Target: Sea water sediment - Value: 2.9 mg / kg

Target: Microorganisms in wastewater treatment - Value: 580 mg / l - Notes: Reference value for STP microorganisms

8.2. Exposure controls Eye protection:

Use closed safety visors, do not use eye lenses. Use safety glasses with side splash protection.

Skin protection:

Wear clothing that guarantees total protection for the skin, e.g. in cotton, rubber, PVC or viton. Acid-proof clothing or plastic apron or complete coveralls. Lower limb protection: Chemical resistant boot

Hand protection:

For contact with the substance as it is: use protective gloves that guarantee total protection, e.g. in PVC, neoprene or rubber. (EN 374 1/2/3).

Gloves with protection factor 6 are recommended: breakthrough time> 480min, min thickness 0.3 mm. (Ex: Natural rubber - NR (0.5 mm); Polychloroprene - CR (0.5 mm); Nitrile - NBR (0.35 mm); butyl rubber (0.5 mm); FKM (0.4 mm) ; PVC (0.5mm)).

Change the gloves that may be used in the presence of signs of wear, cracks or internal contamination.

Respiratory protection:

If there is not enough ventilation, use adequate respiratory protection (EN 141). Avoid breathing vapors.

Air concentration levels should be kept below exposure limits. When for certain operations the concentration in the air exceeds the TLV, respiratory protection is necessary: use masks approved by EN149 FFP2, or EN 140 (Filter Type EN143: A2B2).

Thermal risks:

Wear heat-resistant gloves in case of thermal hazards Environmental exposure controls:

Avoid the formation of mists or aerosols. Do not eat or drink while handling. Observe general hygiene measures for the use of chemicals

Appropriate engineering controls: None

SECTION 9: physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Method:	Note:
Appearance and color:	clear colorless liquid	-	-
Smell:	Characteristic	-	-
Odor threshold:	Unavailable	-	-

pH:	Approx. 7.0	-	-
Melting point / freezing point:	Approx. - 40 ° C	-	-
Initial boiling point and boiling range:	Approx. 85 ° C	-	-
Flash point:	23 ° C	-	-
Evaporation rate:	Unavailable	-	-
Solid / gas flammability:	Not applicable	-	-
Upper / lower flammability or explosion limit:	Unavailable	-	-
Vapor pressure:	Unavailable	-	-
Vapor density:	Unavailable	-	-
Relative density:	ca. 0.87 g / mL	-	-
Water solubility:	Total	-	-
Solubility in oil:	Insoluble	-	-
Partition coefficient (n-octanol / water):	Unavailable	-	-
Auto-ignition temperature:	Unavailable	-	-
Decomposition temperature:	Unavailable	-	-
Viscosity:	Unavailable	-	-
Explosive properties:	Not explosive	-	-
Oxidizing properties:	Non oxidizing	-	-

9.2. Other information

Property	**Value**	**Method:**	**Note:**
Miscibility:	Unavailable	-	-
Lipid:	Unavailable	-	-
Conductivity:	Unavailable	-	-
Characteristic properties of groups of	Unavailable	-	-

SECTION 10: stability and reactivity

10.1. Reactivity
Stable under normal conditions

10.2. Chemical stability
Stable under normal conditions

10.3. Possibility of dangerous reactions
Forms explosive mixtures with air. Reacts violently with strong oxidants such as perchlorates, chromium trioxide and hydrogen peroxide. At high temperatures it can react vigorously with oxygen in the air

10.4. Conditions to avoid
Heating, open flames and sparks. No ventilation. Exposure to the air. Containers not properly closed.

10.5. Incompatible materials
Avoid contact with oxidizing substances. The product may ignite. Strong oxidants. Perchlorates, peroxides, hydrogen peroxide, potassium, sodium, chlorine, permanganate or chromate in acid solutions, nitric acid, peroxides, calcium hypochlorite, chlorine oxides, dipotassium dioxide.

10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

Unavailable.

Toxicological information regarding the main substances present in the product:

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 4396-5500 mg / kg Test: LD50 - Route: Dermal - Species: Rabbit 12870 mg / kg
Test: LC50 - Route: Inhalation - Species: Rat 72600 mg / m3 - Duration: 4h Test: LC50 - Route: Inhalation - Species: Mouse 27200 mg / m3 - Duration: 4h

b) skin corrosion / irritation:

Test: Irritating to skin - Species: Positive Rabbit - Notes: It is slightly irritating - (INRS, 2009)

c) serious eye damage / serious eye irritation:

Test: Irritating to eyes - Species: Positive Rabbit

d) respiratory or skin sensitization:

Test: Negative skin sensitization

e) germ cell mutagenicity:

Test: Negative mutagenesis

f) carcinogenicity:

Test: Positive Carcinogenicity - Notes: (IARC, 1999)

g) toxicity for reproduction:

Test: Reproductive toxicity Negative

ethanol; ethyl alcohol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 7000 mg / kg Test: LD50 - Route: Oral - Species: Mouse 3400 mg / kg
Test: LD50 - Route: Dermal - Species: Rabbit> 20000 mg / kg
Test: LC50 - Route: Inhalation - Species: Rat 20000 mg / kg - Duration: 10h Test: LC50 - Route: Inhalation - Species: Mouse 39 mg / m3 - Duration: 4h

b) skin corrosion / irritation:

Test: Irritating to skin Negative

c) serious eye damage / serious eye irritation:

Test: Irritating to eyes Positive - Notes: Moderately irritating (OECD, 2004)

d) respiratory or skin sensitization:

Test: Negative skin sensitization

f) carcinogenicity:

Test: Positive Carcinogenicity

g) toxicity for reproduction:

Test: Reproductive toxicity Positive

Unless otherwise specified, the data required by Regulation (EU) 2015/830 indicated below are to be understood Not available .:

a) acute toxicity;
b) skin corrosion / irritation;
c) serious eye damage / serious eye irritation;
d) respiratory or skin sensitization;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) specific target organ toxicity (STOT) - single exposure;

i) specific target organ toxicity (STOT) - repeated exposure;
j) aspiration hazard.

SECTION 12: ecological information

12.1. Toxicity

Use according to good working practices, avoiding to disperse the product in the environment.

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) Acute aquatic toxicity:

Endpoint: CL50 - Species: Fish 1400 mg / l - Notes: 24-96h - (HSDB, 2015) - (Lepomis macrochirus)

Endpoint: CL50 - Species: Fish 1400 mg / l - Notes: 24-96 h; (HSDB, 2015); (Gambusia affinis)

Endpoint: CL50 - Species: Aquatic invertebrates 1400 mg / l - Duration h: 48 - Notes: Crustaceans (Crangon crangon) - (HSDB, 2015; OECD, 1997)

Endpoint: CL50 - Species: Aquatic invertebrates 11500 mg / l - Duration h: 86 - Notes: Crustaceans (Crangon crangon) - (HSDB, 2015)

b) Chronic aquatic toxicity:

Endpoint: NOEC - Species: Dafnie 141 mg / l - Duration h:
384 Endpoint: NOEC - Species: Dafnie 30 mg / l -
Duration h: 504

e) Toxicity to plants:

Endpoint: EC50 2100 mg / l - Duration h: 72 - Notes: Terrestrial plant (Lactuca sativa) ethanol; ethyl alcohol - CAS: 64-17-5

a) Acute aquatic toxicity:

Endpoint: CL50 - Species: Fish> 100 mg / l - Duration h: 96 - Notes: (Pimephales promelas) - (OECD, 2004)

Endpoint: CL50 1833 mg / l - Duration h: 24 - Notes: Crustaceans (Artemia salina) - (OECD, 2004)

Endpoint: CL50 5980 mg / l - Duration h: 4 - Notes: Crustaceans (Paramecium caudatum) - (OECD, 2004)

Endpoint: NOEC 9.6 mg / l - Duration h: 240 - Notes: (Ceriodaphnia sp.) - (effects on reproduction) (OECD, 2004)

Endpoint: NOEC - Species: Algae 280 mg / l - Duration h: 168 - Notes: (Lemna gibba) - (OECD, 2004).

e) Toxicity to plants:

Endpoint: CE50 - Species: Algae 1000 mg / l - Duration h: 96 - Notes: (Chlorella vulgaris) - (OECD, 2004)

12.2. Persistence and degradability Not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

VPvB Substances: None - PBT Substances: None

12.6. Other adverse effects None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. Send to authorized disposal plants or to incineration under controlled conditions. Operate according to local and national regulations.

SECTION 14: Transport information

14.1. UN number

ADR-Number UN: 1219

IMDG-Number UN: 1219

14.2. UN proper shipping name

ADR-Shipping Name: A 1219 ISOPROPANOL (ISOPROPYL ALCOHOL IMDG-
Technical name: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Hazard classes related to ADR-Class
transport: 3
ADR-Label: 3

14.4. Packing group
ADR-Packing Group: II
IMDG-Packing group: II

14.5. Environmental hazards
Marine pollutant:

14.6. Special precautions for railway users
(RID): 3
IMDG-Technical name: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) IMDG-
EMS: FE, SD

14.7. Transport in bulk according to Annex II of MARPOL and the IBC code No

SECTION 15: regulatory information

15.1. Health and safety and environmental laws and regulations specific for the substance or mixture

Legislative Decree 9/4/2008 n. 81
Ministerial Decree 26/02/2004 (Occupational exposure limits) Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (UE) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) no. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions relating to the product or the substances contained according to Annex XVII of the Regulation (EC) 1907/2006 (REACH) and subsequent amendments:
None

Where applicable, refer to the following regulations:
Ministerial circulars 46 and 61 (Aromatic amines).
Directive 2012/18 / EU (Seveso III)
DL 3/4/2006 n. 152 Environmental standards Dir. 2004/42 / CE (VOC Directive)
Regulation 648/2004 / EC (Detergents).

Provisions relating to EU directive 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
The product belongs to the categories: P5c

15.2. Chemical safety assessment
A chemical safety assessment has not been performed for the mixture

SECTION 16: other information

Text of the sentences used in paragraph 3:
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Hazard class and category	Code	Description
Flam. Liq. 2	2.6 / 2	Flammable liquid, Category 2
Flam. Liq. 3	2.6 / 3	Flammable liquid, Category 3
Eye Irrit. 2	3.3 / 2	Eye irritation, Category 2
STOT SE 3	3.8 / 3	Specific target organ toxicity - single exposure, Category 3

Classification and procedure used to derive it according to regulation (EC) 1272/2008 [CLP] in relation to mixtures:

Classification according to regulation (EC) no. 1272/2008	Classification procedure
Flam. Liq. 3, H226	Based on experimental evidence
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method

This document has been prepared by an SDS technician and has received adequate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Center, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
CCNL - Annex 1
Istituto Superiore di Sanità - National Chemical Substances Inventory

The information contained therein is based on our knowledge at the above date. They refer only to the product indicated and do not constitute a guarantee of particular qualities.
The user is required to ensure the suitability and completeness of this information in relation to the specific use that it must make of it.
This sheet supersedes any previous edition.

Classification procedures according to regulation 1272/2008 (CLP).

Physical hazards: Test method
Health hazards: Calculation method

ADR: European Agreement Concerning International Transport of dangerous goods by road.
CAS: Chemical Abstract Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging. DNEL: Derived level without effect.
EINECS: European inventory of existing chemicals on the market.
GefStoffVO: Ordinance on dangerous substances, Germany.
GHS: General harmonized classification system ed labeling of chemicals.
IATA: International Association for Transportation plane.
IATA-DGR: Regulation on dangerous goods of the "Association for international air transport "(IATA).
ICAO: International Aviation Organization civil.
ICAO-TI: Technical instructions from the "International Organization for civil aviation "(ICAO).
IMDG: International Maritime Code for dangerous goods. INCI: International Nomenclature of Ingredients cosmetics.

KSt: Coefficient Explosion.
LC50: Lethal concentration for 50 percent of the tested population. LD50: Lethal dose for 50 percent of the population header.
PNEC: Concentration expected without effect.
RID: Regulation concerning the international transport of dangerous goods by rail.
STEL: Exposure limit a short term. STOT: Target toxicity specific organ. TLV: Threshold value limit.
TWA: Weighted average in the time
WGK: German class of danger for waters.

Made and distributed for:

Holding Everest European®

Numero Verde
800-261483

International Number: +39 0683510852
Site: www.holdingeveresteuropean.com
Email: info@holdingeveresteuropean.com