

# SAFETY DATA SHEET

Product Name: NANO ANTI-BACTERIAL SURFACE WIPES

ABN 36099912213.

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Version: 1.0 This version issued: 21 April 2020

## SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1	Product identifier	
	Product form	WIPES
	Product Name	NANO ANTI-BACTERIAL SURFACE WIPES
	Model/Type	
	CAS No.	Refer to section 3
	Type of product	Preparation-Blend of ingredients incorporated into wipe
	Chemical structure	Refer to section 3
	Synonyms	N/A
	Product group	EXEMPT THERAPEUTIC GOOD- HOUSEHOLD GRADE DISINFECTANT, ANTI-BACTERIAL SURFACE WIPES
1.2.1	Relevant identified uses	For antibacterial cleansing of surfaces in the household
	Main use category	Household surface disinfectant Use on surfaces only
1.2.2	Uses advised against	Not for personal use.
1.3	Details of the supplier of safety data sheet	
	Manufacturer/ supplier	TV INNOVATIONS PTY LTD
		UNIT 7, 17 STANTON ROAD SEVEN HILLS NSW 2147, AUSTRALIA
		TEL: 0061-2-9838 0655, Fax:0061-2-9838 0666
		E-mail: nano@tvinnovations.com.au
1.4	Emergency telephone number	0061-2-9838 0655

## SECTION 2 - HAZARDS IDENTIFICATION

2.1	Classification of the substances or mixture	
		This product does not contain hazardous substances to be mentioned according to EU Regulation No 1907/2006 (REACH), <i>Classification according to regulation (EC) 1272/2008:</i>
		<i>Flant SoL 1 __ _H228__ _ Flammable Solid</i>

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Hazard category as per Safe Work Australia (SWA).  
Solid containing Flammable liquid  
Flammable liquids Category 2  
Eye irritation: Category 2A

2.2	Label elements
Pictogram	
Signal word	DANGER
Hazard statement(s)	H225 Highly Flammable liquid and vapor. H319 Causes serious eye irritation.
2.3	Precautionary Statements
	Prevention P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children P103 Read label before use P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear eye protection/ face protection. Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Storage: P403 + P235 Store in a well-ventilated place. Keep cool. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
2.4	Hazards not otherwise classified: No information available
2.5	Other information No information available
2.6	Other hazards
	Results of PBT and vPvT assessment Not applicable
	PBT No PBT substances
	vPvB No vPvB substances

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## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Mixture

Name	CAS No.	EC No.	Concentration, %
Ethyl alcohol	64-17-5	200-518-6	75
Pure Water	7732-18-5	231-791-2	24.9
Glycerin	56-81-5	200-289-5	0.1%

## SECTION 4 - FIRST AID MEASURES

4.1	Description of first aid measures	
	General advice	If medical advice is needed, have product container or label at hand.
	If inhaled	Supply -with fresh air. Call a doctor, if you feel unwell Or call POISON INFORMATION CENTRE: AUSTRALIA 13 11 26, NEW ZEALAND 0800 764 766
	In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/ shower. If there are signs of irritation or other symptoms seek medical attention.
	In case of eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice
	If swallowed	If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention.
4.2	Most important symptoms and effects, both acute and delayed	Causes serious eye irritation.
4.3	Indication of any immediate medical attention and special treatment needed	First Aid responders should pay attention to self-protection and use the recommended protective clothing. Treat according to symptoms.

## SECTION 5 - FIRFIGHTING MEASURES

5.1	Extinguishing media	
	Suitable extinguishing media	Use CO2, chemical powder, water or alcohol-resistant foam,
	Unsuitable extinguishing media	High volume water jet
5.2	Special hazards arising from the substance or mixture	
	Flammable mixture. Vapors may form explosive mixture with air.	
	Hazardous decomposition products in case of fire	Carbon oxides
5.3	Advice for firefighters	
	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	
5.4	Special protective equipment for firefighters	Wear an approved positive pressure self-contained breathing apparatus (Comply with EN133).

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Cut off leakage source and collect spillage timely if safe to do it; Ensure adequate ventilation; Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area); Wear personal protective equipment; Avoid breathing vapor; Beware of accumulation of vapor in low areas or contained areas, where explosive concentrations may occur; Avoid contact with eyes.

### 6.2 Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage from entering drain, sewer, basement or confined areas if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust); Ensure good ventilation; Eliminate sources of ignition; Dispose contaminated material as waste according to item 13.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Read label before use; Ensure good ventilation/exhaustion at the workplace;  
Smoking, eating and drinking should be prohibited; Avoid all sources of ignition;  
Avoid breathing vapors; Avoid contact with eyes.  
Information about fire and explosion protection:  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Avoid contact with eyes.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:  
Store in a -well-ventilated place. Keep cool.  
Information about storage in one common storage facility: Keep out of reach of children;  
Keep away from heat, sparks, open flames and hot surfaces; No smoking.  
Store locked up

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
	Occupational Exposure Limits	Ethyl Alcohol, TWA: 1900mg/m <sup>3</sup> (NIOSH, REL); STEL: 1000mg/kg (OSHA Z-1)
8.2	EXPOSURE CONTROLS	Based on the composition shown in section 3, the following measures are suggested for occupational safety measure
	Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; Take off contaminated clothing and wash it before reuse; See section 7 for information about design of technical facilities.
	Personal protective equipment	Respiratory protection: Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.  Hand protection: Protective gloves. Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11mm; breakthrough times up to 480 minutes).  Eye protection: Safety glasses. Protective goggles with side shield.  Skin and body protection: No special measures necessary provided product is used correctly.  Protective measures: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Ensure that eye flushing systems and safety showers are located close to the work place. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes
	Control of environmental exposure	Do not let product enter drains.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<b>9.1</b>	<b>Physical State</b>	
	Appearance	Wet wipe, liquid in fabric
	Color	Colorless
	Odor	Alcohol odor
	Odor threshold	No data available
	pH	7-9 at 20°C
	Relative evaporation rate (butylacetate=1)	No data available
	Melting point	No data available
	Freezing point	No data available
	Boiling point	80-81°C Cat101.3 kPa
	Flash point	17-18°C(liquid part, closed cup)

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	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Flammability (solid, gas)	No data available
	Relative vapor density at 20°C	No data available
	Relative density	No data available
	Density	No data available
	Solubility	No data available
	Log Pow	No data available
	Viscosity, kinematic	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
	Explosive limits	Product is not explosive, However formation of explosive air/vapor mixture is possible
<b>9.2</b>	<b>Other information</b>	
	Minimum ignition energy	No data available
	VOC content	>1%

## SECTION 10 – STABILITY AND REACTIVITY

10.1	REACTIVITY
	Not classified as a reactivity hazard
10.2	CHEMICAL STABILITY
	Stable under normal conditions
10.3	POSSIBILITY OF HAZARDOUS REACTIONS
	Vapours may form explosive mixture with air.
10.4	CONDITIONS TO AVOID
	Heat, flames and sparks.
10.5	INCOMPATIBLE MATERIALS
	Strong oxidizing agents
10.6	HAZARDOUS DECOMPOSITION PRODUCTS
	No hazardous decomposition products are known

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## SECTION 11 – TOXICOLOGICAL INFORMATION

### • 11.1 Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification: No animal test has been done for this product.

#### 64-17-5 Ethanol

Rat	LD50-oral LC50-inhalation	7060 mg/kg 20000ppm/10H
Rabbit	LD50-oral	6300 mg/kg
Guinea pig	LD50-oral	5560mg/kg
Mouse	LD50-oral LC50-inhalation	3450 mg/kg 39000mg/m3/4H

#### 56-81-5 Glycerin

Rat	LD50-oral	12600mg/kg
Mouse	LD50-oral	4090mg/kg
Rabbit	LD50-oral LD 5 O-skin	27000mg/kg >10000mg/kg

Remark: All the above data are from literature.

- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eyes damage/irritation: Based on available data, the classification criteria are not met.
- Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

## SECTION 12 – ECOLOGICAL INFORMATION

12.1	TOXICITY	No information available
	Toxicity to daphnia and other aquatic invertebrates	Not hazardous to aquatic environment
12.2	Persistence and degradability	Readily biodegradable
12.3	Bio-accumulative potential	Low bioaccumulation
12.4	Mobility in soil	High mobility in soil
12.5	Results of PBT and vPvB assessment	No PBT substances used in the product.
12.6	Other adverse effects	No information available

## SECTION 13- DISPOSAL CONSIDERATION

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13.1	Waste treatment methods	
	Waste treatment methods	Dispose of in accordance with local regulations.
	Waste management (disposal and evaluation)	Disposal must be done according to local/official regulations. Refer to manufacturer/supplier for information on recovery/recycling.
	Contaminated packaging	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14 – TRANSPORT INFORMATION

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

• 14.1 UN-Number IMDG	UN3175
• 14.2 UN proper shipping name IMDG	Solids containing flammable liquid, n.o.s.
• 14.3 Transport hazard class (es) ADR, RID, ADNIMDG, IATA  Class Label	
• 14.4 Packing group ADR, RID, ADNIMDG, IATA	II
• 14.5 Marine pollution	No
• 14.6 Special precautions for user • Danger code (Kemler) . EMS number	Warning: Flammable solid 40 F-A,S-I
• 14.7 UN "Model Regulation"	UN3175, Solids containing flammable liquid, n.o.s., 4.1, II

## SECTION 15 – REGULATORY INFORMATION

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

This product is compliant with the *Therapeutic Goods Regulations Schedule 5 item 8f-disinfectants, except those described in item 16 in Schedule 14 and does not meet the definition of items in Schedule 4, item 16 which includes hospital grade disinfectants, or household grade disinfectants that are claimed to be sterilants, fungicides, sporicides, tuberculocides or virucides – therefore the product is exempt from Part 3 of the ACT.* z

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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with amendments.

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.2 Chemical safety assessment

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterization is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

## SECTION 16 – OTHER INFORMATION

Legislation related to safety data sheets	GHS Rev.3 and European Regulation No.1272/008, No.1907/2006 and its amendments
Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks	Not applicable
Texts of the legislative phrases mentioned in section 2	Not applicable
Texts of the legislative phrases mentioned in section 3	The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3
Advice related to training	Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
Abbreviations and acronyms	Asp. Tox. Aspiration hazard Carc. Carcinogenicity CAS number- Chemical Abstracts Service Registry Number Eye Irrit. Eye irritation Flam. Liq. Flammable liquids H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H319 Causes serious eye irritation. H340 May cause genetic defects. H350 May cause cancer. H372 Causes damage to organs through prolonged or repeated exposure. Muta. Germ cell mutagenicity Skin Corr. Skin corrosion Skin Irrit. Skin irritation STOT RE Specific target organ toxicity - repeated exposure SWA- Safe Work Australia, formerly ASCC and NOHSC
Other information	Training staff on good manufacturing practice. Manipulations are to be done only by qualified and authorized persons. Use good personal hygiene practices

### Disclaimer

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD STATEMENT: INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

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IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

This SDS was confirmed by Regulatory Concepts, 30 April 2020

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