# SAFETY DATA SHEET

Revision date: 15-Jul-2021

# **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product identifier			
Product Name	TANGERINE FLAVOUR SPRAY DRIED NAT K0086		
Product Code(s)	00000038549		
Other means of identification			
Pure substance/mixture	Mixture		
Recommended use of the chemical and restrictions on use			
Recommended use	Food flavour.		
Uses advised against	No information available.		
Supplier Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia ABN:51 600 546 512 70 Marple Avenue Villawood NSW 2163 Australia Telephone Number: +61 2 8717 2929 Facsimile: +61 2 9755 9611			

# Emergency telephone number

Emergency telephone number

1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

# 2. HAZARDS IDENTIFICATION

## GHS Classification

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Skin sensitization

Category 1 - (H317)

SIGNAL WORD Warning



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Revision Number 3
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## Label elements

Exclamation mark



Hazard statements H317 - May cause an allergic skin reaction

## **Precautionary Statements - Prevention**

Avoid breathing dust / fume / gas / mist / vapours / spray Contaminated work clothing should not be allowed out of the workplace Wear protective gloves **Precautionary Statements - Response** Specific treatment (see First aid on this SDS) IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse **Precautionary Statements - Disposal** Dispose of contents/container to an approved waste disposal plant

## Other hazards which do not result in classification

Causes mild skin irritation Harmful to aquatic life with long lasting effects

Poisons Schedule (SUSMP) None allocated

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### <u>Mixture</u>

Chemical name	CAS No.	Weight-%
d-Limonene	5989-27-5	<=3
Non-hazardous ingredients	Proprietary	Balance

# 4. FIRST AID MEASURES

## Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Emergency telephone number	Poisons Information Center, Australia: 13 11 26 Poisons Information Center, New Zealand: 0800 764 766
Inhalation	Remove to fresh air. Call a physician if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Get

medical attention if symptoms occur.

## Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** May cause sensitization by skin contact. Treat symptomatically.

5. FIRE FIGHTING MEASURES				
Suitable Extinguishing Media	Suitable Extinguishing Media			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Unsuitable extinguishing media	No information available.			
Specific hazards arising from the chemical				
Specific hazards arising from the chemical	Combustible material. Dust can form an explosive mixture with air. Avoid generation of dust. Product is or contains a sensitizer. May cause sensitization by skin contact.			
Hazardous combustion products	Carbon oxides.			
Special protective actions for fire-fighters				
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.			

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Avoid generation of dust. Ensure adequate ventilation. Do not touch or walk through spilled material. Remove all sources of ignition. Take precautionary measures against static discharges. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Wash thoroughly after handling.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust.	

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Conditions for safe storage, includi	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Avoid generation of dust. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take precautionary measures against static discharges.
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store away from sources of heat or ignition.
Incompatible materials	None known based on information supplied.
Poisons Schedule (SUSMP)	None allocated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Limits** 

No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for particulates:

Dusts not otherwise classified: 8hr TWA = 10 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the

physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.

Eye/face protection	Glasses.
Skin and body protection	Protective shoes or boots. Wear suitable protective clothing. Overalls.
Hand protection	Impervious gloves.
Respiratory protection	If determined by a risk assessment an inhalation risk exists, wear a dust mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Environmental exposure controls	No information available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties Physical state Solid

Filysical state	50110	
Appearance	Powder	
Color	Off-white	
Odor	Tangerine	
Odor threshold	No information available.	
Property_	<u>Values</u>	Remarks • Method
рН	No data available	None known
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

# **10. STABILITY AND REACTIVITY**

## **Reactivity**

Reactivity	No information available.	
Chemical stability		
Stability	Stable under normal conditions.	
Explosion data Sensitivity to mechanical impact None.		
Sensitivity to static discharge	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.	
Possibility of hazardous reactions		
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid		
Conditions to avoid	Dust formation. Static discharge (electrostatic discharge). Heat, flames and sparks.	
Incompatible materials		
Incompatible materials	None known based on information supplied.	
Hazardous decomposition products		

Hazardous decomposition products Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

# Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:	
Inhalation	May cause irritation. Specific test data for the substance or mixture is not available.	
Eye contact	Dust contact with the eyes can lead to mechanical irritation. Specific test data for the substance or mixture is not available.	
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes mild skin irritation.	
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts. Specific test data for the substance or mixture is not available.	
Symptoms	Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.	
Numerical measures of toxicity - Product Information		

No information available.

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
d-Limonene	= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-

See section 16 for terms and abbreviations

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. May cause skin irritation.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

# **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## Ecotoxicity

Harmful to aquatic life with long lasting effects. Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
d-Limonene	-	LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: =35mg/L (96h, Oncorhynchus mykiss)	-	-

## Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential	
Bioaccumulation	No information available.
Mobility	
Mobility in soil	No information available.
Other adverse effects	

# **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Waste from residues/unused<br/>productsDispose of in accordance with local regulations. Dispose of waste in accordance with<br/>environmental legislation.

# **14. TRANSPORT INFORMATION**

#### ADG

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

#### <u>IATA</u>

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

#### **IMDG**

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

# **15. REGULATORY INFORMATION**

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

#### National regulations

#### Australia

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP) None allocated

#### National pollutant inventory

Subject to reporting requirement

Chemical name	National pollutant inventory	
d-Limonene - 5989-27-5	20 MW Threshold category 2b total	
	60000 MWH Threshold category 2b total	
	1 tonne/h Threshold category 2a total	
	25 tonne/yr Threshold category 1a total	
	400 tonne/yr Threshold category 2a total	
	2000 tonne/yr Threshold category 2b total	

#### International Inventories AICS

This product is a food additive and is regulated by Food Standards Australia New Zealand (FSANZ).

Legend:

- Australian Inventory of Industrial Chemicals

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

# **16. OTHER INFORMATION**

Supplier Safety Data Sheet 07/2021

**Reason(s) For Issue:** 5 Yearly Revised Primary SDS Change in Hazardous Chemical Classification Updated Formulation Update in Toxicological Information

Issuing Date: 15-Jul-2021

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend S	ection 8: EXPOSURE CONTROLS/PERSONAL	_ PROTECTION	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
С	Carcinogen		

### Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian Industrial Chemicals Introduction Scheme (AICIS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

#### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris.

End of Safety Data Sheet