SAFETY DATA SHEET



Revision date: 22-Aug-2023

Revision Number 6

1. IDENTIFICATION OF	THE MATERIAL AND SUPPLIER
Product identifier	
Product Name	DIPENTAERYTHRITOL
Product Code(s)	00000014269
Other means of identification	
CAS No.	126-58-9
Synonyms	Holtac D; Charmor DP15; Charmor DP40.
Recommended use of the cher	nical and restrictions on use
Recommended use	Chemical intermediate.
Uses advised against	No information available
Details of the supplier of the s	afety data sheet
<u>Supplier</u> Ixom Operations Pty Ltd (Incorpo NZBN: 9429041465226 Address Mt Maunganui South New Zealand	
Telephone Number: +64 9 368 2 Facsimile: +64 9 368 2710	700
For further information, please	e contact
Contact Point	Product Safety Department
Emergency telephone number	_
Emergency Telephone	0 800 734 607 (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 IDENTIFIC	CATION
Not classified as a Dangerous G	ood under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.
Based on available information, I Classification) Notice 2020.	not classified as hazardous according to criteria in the Hazardous Substances (Hazard

GHS Classification

Label elements

Hazard statements

Other hazards which do not result in classification Dust can form an explosive mixture with air

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No.	Weight-%
Dipentaerythritol	126-58-9	>92
Pentaerythritol	115-77-5	1-5

4. FIRST AID MEASURES

Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26
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 skin with soap and water. Call a physician if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	No information available.
Indication of any immediate medic	al attention and special treatment needed
Indication of any immediate medic	al attention and special treatment needed Treat symptomatically.
-	Treat symptomatically.
Note to physicians	Treat symptomatically.
Note to physicians 5. FIRE FIGHTING MEASU	Treat symptomatically.
Note to physicians 5. FIRE FIGHTING MEASU Suitable Extinguishing Media	Treat symptomatically.
Note to physicians 5. FIRE FIGHTING MEASU Suitable Extinguishing Media Suitable Extinguishing Media	Treat symptomatically. RES Dry chemical, CO2, water spray or regular foam. High volume water jet.
Note to physicians 5. FIRE FIGHTING MEASU <u>Suitable Extinguishing Media</u> Suitable Extinguishing Media Unsuitable extinguishing media	Treat symptomatically. RES Dry chemical, CO2, water spray or regular foam. High volume water jet.

Special protective actions for fire-fighters

Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout
fire-fighters	gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Avoid generation of dust. Remove all sources of ignition. Take precautionary measures against static discharges.
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 containme	ent 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. Use non-sparking tools. After cleaning, flush away traces with water.
Precautions to prevent secondary hazards	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Avoid generation of dust. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. 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.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from sources of heat or ignition. Keep container closed when not in use.	
Incompatible materials	None known based on information supplied.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

Pentaerythritol: WES-TWA 10 mg/m³ Particulates not otherwise classified: 8hr WES-TWA 10 mg/m³ (inhalable dust) or 3 mg/m³ (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

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.
Hand protection	Impervious gloves.
Skin and body protection	Protective shoes or boots. Wear suitable protective clothing. Overalls.
Respiratory protection	If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator 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
Appearance	Crystalline Powder

Color Odor Odor threshold	White Odourless No information available	
Property	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	218.8°C	None known
Boiling point / boiling range	Decomposes	None known
Flash point	>218.8°C	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	20 g/m³	
Vapor pressure	0.0000000023 Pa @25°C	None known
Vapor density	No data available	None known
Relative density	1.38 @20°C	None known
Water solubility	2.4 g/L @ 20 °C	None known
Solubility(ies)	No data available	None known
Partition coefficient	$\log Pow = -1.8$	None known
Autoignition temperature	No data available	None known
Decomposition temperature	>373°C	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information Bulk density	550 kg/m³ @20°C	

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).
Incompatible materials	
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	8

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2).

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.
Eye contact	Dust contact with the eyes can lead to mechanical irritation.
Skin contact	May cause irritation.
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.
Symptoms	No information available.
Acute toxicity	

Numerical measures of toxicity

On basis of test data	
Oral LD50	> 2000 mg/kg (rat)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Pentaerythritol	= 19500 mg/kg (Rat)	-	> 11 g/m³ (Rat)6 h

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	Not classified.
Serious eye damage/eye irritation	Not classified.
Respiratory or skin sensitization	Not a skin sensitizer. (mouse).
Germ cell mutagenicity	Not mutagenic.
Carcinogenicity	No evidence of carcinogenic effects.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	No known effect.
STOT - repeated exposure	No known effect.
Aspiration hazard	Not applicable.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Keep out of waterways.

Terrestrial ecotoxicity

There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Dipentaerythritol	-	LC50: >100mg/L (96h,	-
		Oncorhynchus mykiss)	
Pentaerythritol	-	LC50: >100mg/L (96h, Oryzias	EC50: 30477 - 37043mg/L (48h,
		latipes) LC50: =50000mg/L (48h,	Daphnia magna) EC50:
		Oryzias latipes)	=38900mg/L (24h, Daphnia magna)

Persistence and	degradability

Persistence and degradability	Not readily biodegradable.
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Bioaccumulative potential

Bioaccumulation

Based on the partition coefficients of the components, the product is not expected to bioaccumulate in organisms.

Mobility

Mobility in soil

No information available.

Component Information

Chemical name	Partition coefficient
Dipentaerythritol	-1.8
Pentaerythritol	-1.7

Other adverse effects

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products	Landfill or incineration in accordance with local, state and federal regulations.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT	Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.
ΙΑΤΑ	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.

<u>IMDG</u>

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	See section 8 for national exposure control parameters	
International Inventories		
NZIoC	All the constituents of this material are listed on the New Zealand Inventory of Chemicals or	
	are exempt.	
TSCA	Contact supplier for inventory compliance status.	
DSL/NDSL	Contact supplier for inventory compliance status.	
EINECS/ELINCS	Contact supplier for inventory compliance status.	
ENCS	Contact supplier for inventory compliance status.	
IECSC	Contact supplier for inventory compliance status.	
KECL	Contact supplier for inventory compliance status.	
PICCS	Contact supplier for inventory compliance status.	
AIIC	All the constituents of this material are listed on the Australian Inventory of Industrial	
	Chemicals or are exempt.	

Legend:

NZIOC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AllC- 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/ 2020 Holtac is a trademark. Charmor is a trademark.

Prepared By

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

Issuing Date:

22-Aug-2023

Reason(s) For Issue:

Revised Primary SDS

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	Section 8: EXPOSURE CONTROLS/PERSONAL	_ PROTECTION
TWA	TWA (time-weighted average)	STEL
Ceiling	Maximum limit value	*
С	Carcinogen	

STEL (Short Term Exposure Limit) Skin designation

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

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) 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 Ixom 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.

End of Safety Data Sheet