

Statement

July 2022

Sasol Base Chemicals Polypropylene – Regulatory Datasheet

The following products are covered under this statement:

HHR102	HNR101	CHR440	CUV448	ESV200
HKR102	HRV101	CKR448	CMR646	ESV255
HLR102	HSV103	CMR348	CMR648	ESV265
HMR100	HMR040	CPV340	CRV646	ETV265
HNR100	HRV140	CTV446	CRV648	
HNQ100	HMR127	CTV448		
HRV100	HTV145	CUV446		

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Base Chemicals

56 Grosvenor Road Bryanston, PO Box 2525, Randburg, 2125, South Africa
Telephone +27 (0)11 790 1111 Facsimile +27 (0)11 790 1058 www.sasol.com



Identity of manufacturer

All products listed above are produced by Sasol Base Chemicals, a division of Sasol Chemical Industries Limited (Reg. no. 1968/013914/06), a company incorporated and existing under the laws of South Africa. Sasol Base Chemicals produces polypropylene at its operations situated at:

Polymer Road
Sasol Works
Secunda
Republic of South Africa

Origin of Sasol Base Chemicals Polypropylene

All grades listed above are produced by Sasol Base Chemicals in the Republic of South Africa using:

- > 99% m/m feedstock produced in South Africa
- <1% m/m process chemicals and additives imported from various countries

Chemical Inventories

All substances intentionally used in the production of Sasol Base Chemicals Polypropylene are listed (or exempt from listing) in the following inventories:

- European Inventory of existing chemical substances (*EINECS*)
- US Toxic Substance Control Act Inventory (*TSCA*)
- Canadian Domestic Substances List (*DSL*)

Food contact – Europe

All of grades of Sasol Base Chemicals Polypropylene comply with the requirements of European regulations pertaining to food contact materials, namely:

- *Regulation (EC) No 1935/2004* of 27 October 2004 on materials and articles intended to come into contact with food (commonly known as the Framework Regulation on food contact materials).
- *Commission Regulation (EU) No 10/2011* of 14 January 2011 (as amended)

Compliance to the compositional requirements of Commission Regulation (EU) No 10/2011 is claimed based on the fact the grades listed above is produced from authorised substances listed in the Union list of authorised monomers, other starting substances, macromolecules obtained from microbial fermentation, additives and polymer production aids specified in Annex I Table 1 of the regulation.

Since specific restrictions apply to some grades (SML's, QM's etc.), users are referred to grade specific food contact statements issued by Sasol Base Chemicals from time to time.

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Food contact – United States of America

All grades of Sasol Base Chemicals Polypropylene comply with the requirements of the US Food and Drug Administration (FDA) governing the use of plastic materials in contact with food as published in the *Code of Federal Regulations 21 CFR*. Since specific restrictions (types of food & conditions of use) apply to some grades, users are referred to grade specific food contact statements issued by Sasol Base Chemicals from time to time.

Food contact – Other territories

Sasol Base Chemicals Polypropylene complies with the national regulations on food contact materials of various countries. Please contact Sasol Base Chemicals for more information if required.

Good Manufacturing Practice (GMP)

Sasol Base Chemicals Polypropylene is manufactured in accordance with the broad guidelines on quality control, quality assurance and documentation required for good manufacturing practice as outlined in *Regulation (EC) No 2023/2006* (although no formal audited GMP or HACCP system is in place at present).

Animal by-products (BSE & TSE)

Sasol Base Chemicals Polypropylene contains oleo-chemicals of animal origin (mainly beef tallow). According to the suppliers of these oleo-chemicals:

- It is derived from animal by-products which comply with the requirements of class 3 of *Regulation (EC) No 1774/2002*. This regulation requires the removal of certain high risk materials from animal by-products before processing
- During processing of the animal by-products into oleo-chemicals it is exposed to conditions which exceed:
 - o the conditions of inactivation as described in *EMEA/410/01* (rev 3, July 2011)
 - o the minimum physiochemical requirements as laid down by the 22nd Adaptation (*Directive 98/16/EC*) and 24th Adaptation (*Directive 2000/6/EC*) to the Cosmetics Directive (*Directive 76/768/EC*)

Based on this information Sasol Base Chemicals Polypropylene is not expected to pose any risk of transmitting Bovine Spongiform Encephalitis (BSE, “Mad cow disease”) or Transmissible Spongiform Encephalitis (TSE, Jakob-Creutzfeldt disease).

Allergens

Sasol Base Chemicals Polypropylene is manufactured without the intentional addition of any of substance derived from- or containing:

- Milk
- Eggs
- Fish
- Crustacean shellfish
- Tree nuts
- Wheat

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- Peanuts
- Soybeans
- Sesame seed
- Natural rubber latex
- Citrus fruit

Sasol Base Chemicals Polypropylene and/or articles made thereof can therefore be considered to be non-allergenic and is not expected to impart allergenic properties to foodstuffs packaged therein.

Religious laws (Kosher & Halaal)

Sasol Base Chemicals Polypropylene has not been certified as being Kosher or Halaal.

Biodegradation & Composting

Sasol Base Chemicals Polypropylene is not biodegradable or suitable for composting; articles made from it cannot be classified as compostable according to CEN Standard prEN 13432.

Medical applications (EP, USP, DMF)

Sasol Base Chemicals Polypropylene has not been tested in accordance with the guidelines provided in the *European Pharmacopeia* (EP) or the *US Pharmacopeia* (USP). Sasol Base Chemicals have not compiled a *Drug Master File* (DMF) for any of the grades listed above.

Genetically Modified Organisms (GMO)

Sasol Base Chemicals Polypropylene do not contain and is not obtained from any genetically modified organisms (GMOs) and can be seen as GMO-free according to the current regulations.

Phthalates

Sasol Base Chemicals Polypropylene is manufactured without the intentional addition of any of the substances listed below:

Substance	Acronym	CAS number
butylbenzyl phthalate	BBP	85-68-7
di-iso-decyl phthalate	DIDP	26761-40-0
di-(2-ethylhexyl) phthalate	DEHP or DOP	117-81-7
di-ethyl phthalate	DEP	84-66-2
di-cyclo-hexyl phthalate	DCHP	84-61-7
di-n-hexyl phthalate	DNHP	68515-50-4
di-2-methoxy-ethyl phthalate	DMEP	117-82-8
di-(methyl-cyclo-hexyl) phthalate	DMCHP	27987-25-3
di-methyl phthalate	DMP	131-11-3
di-iso-nonyl phthalate	DINP	28553-12-0

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di-iso-octyl phthalate	DIOP	27554-26-3
di-n-octyl phthalate	DNOP	117-84-0
di-iso-pentyl phthalate	DIPP	605-50-5
di-n-pentyl phthalate	DPP or DNPP	131-18-0
n-pentyl-iso-pentyl phthalate	NPIPP	84777-06-0
epoxidised soybean oil	ESBO	8013-07-8

Phthalates are commonly used in the preparation of catalyst systems for polypropylene. Technically unavoidable trace amounts of phthalates might therefore be present in Sasol Base Chemicals Polypropylene. The concentration of phthalates in Sasol Base Chemicals Polypropylene is however not expected to exceed 25ppm (0.0025% by mass). Many polypropylene producers do not declare the presence of phthalates in their products. Sasol Base Chemicals, being committed to *Responsible Care®* and *Product Stewardship*, prefers to make a disclosure to its customers in this regard.

Toy safety (EN71 & 2005/84/EC)

Sasol Base Chemicals Polypropylene is manufactured without the intentional addition of any substance listed in either *CEN EN71.3.2013* (17 elements including chromium (III) and (VI), tin and organic tin) or *CEN 71.9 table 2A – 2I* (Organic Chemical Compounds). Please be advised that Sasol Base Chemicals polypropylene has not been tested to ensure compliance to *EN7.3.2013* using the methods stipulated.

Directive 76/769/EEC as amended by *Directive 2005/84/EC* of 14 December 2005 limits the concentration of certain phthalates used in toys and childcare articles to 1000ppm (0.1% by mass). Based on the information in this statement; articles made exclusively from Sasol Base Chemicals polypropylene are expected to comply with the requirements of this directive.

Consumer Protection Safety Improvement Act (CPSIA)

The *Consumer Protection Safety Improvement Act (CPSIA)* is a law of the United States of America which came into effect with the signing of Bill HR 4040 on 14 August 2008. It imposes testing and documentation requirements on manufacturers of apparel, shoes, personal care products, accessories & jewellery, home furnishings, bedding, toys, electronics and video games, books, school supplies, educational materials and science kits.

CPSIA limits the level of lead to 90ppm and that of phthalates to 1000ppm in the consumer products listed above. Based on the information contained in this statement; articles made exclusively from Sasol Base Chemicals polypropylene are expected to comply with the requirements of CPSIA.

Foreseeable “Use & Abuse” scenarios as described by CPSIA are specific to the nature and design of consumer products made from polypropylene. Since virgin polypropylene granules as produced and sold by Sasol Base Chemicals are not intended for use by consumers, no statement can be made in this regard.

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Electrical & Electronic Equipment (RoHS & WEEE)

Directive 2011/65/EC of 8 June 2011 restricts the use of certain hazardous substances (cadmium, hexavalent chromium, lead, mercury, polybrominated biphenyls and polybrominated diphenyl esters) in electrical and electronic equipment in the European Union. Based on the information contained in this statement; articles made exclusively from Sasol Base Chemicals polypropylene are expected to comply with the requirements of this directive (commonly referred to as the “RoHS Directive”).

Directive 2002/96/EC of 27 January 2003 (as amended) regulate the collection, recycling and recovery of waste electrical and electronic equipment in the European Union. No substance contained in Sasol Base Chemicals Polypropylene will require articles made thereof to be removed or separately collected under the requirements of this directive (commonly referred to as the “WEEE Directive”).

Automotive (ELV & GADSL)

Directive 2000/53/EC of 18 September 2000 (as amended by *Directive 2002/525/EC* and *Directive 2005/673/EC*) limits the concentration of heavy metals (lead, mercury, cadmium, and hexavalent chromium) allowed in vehicle components in the European Union. Based on the information contained in this statement; articles made exclusively from Sasol Base Chemicals polypropylene are expected to comply with the requirements of this directive (commonly referred to as the “End Life Vehicles” or “ELV Directive”).

The *Global Automotive Declarable Substance List* (GADSL) either:

- prohibits
- require to be declared (above a threshold concentration)

the presence of listed substances in automotive components used in OECD (Organization for Economic Cooperation & Development) countries. No substance in Sasol Base Chemicals Polypropylene is either prohibited or declarable under the GADSL (statement based on 2007 GADSL version 3.0).

Packaging waste (94/62/EC & CONEG)

Directive 94/62/EC of 20 December 1994 limits the concentration of heavy metals (lead, mercury, cadmium, and hexavalent chromium) allowed in packaging waste in the European Union to 100ppm. None of these substances are intentionally added to Sasol Base Chemicals Polypropylene. Furthermore; Sasol Base Chemicals Polypropylene can be considered suitable for reuse, recycling and/or energy recovery, and may be labelled as such. Articles made exclusively from Sasol Base Chemicals Polypropylene are therefore expected to comply with the requirements of this directive (commonly referred to as the “Packaging Waste Directive”).

Regulations published by the Coalition of North-eastern Governors (CONEG) limits the concentration of heavy metals (lead, mercury, cadmium, and hexavalent chromium) allowed in packaging waste in certain states of the United States of America to 100ppm. Based on the information contained in this statement; articles made exclusively from Sasol Base Chemicals polypropylene are expected to comply with the requirements of this CONEG regulation.

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Drinking water (Proposition 65)

The *Safe Drinking Water and Toxic Enforcement Act of 1986* of the State of California regulates substances listed by California as causing cancer or birth defects or other reproductive harm. Articles made exclusively from Sasol Base Chemicals Polypropylene are not expected to lead to exposure which exceeds the maximum allowable limit of any substance listed under Proposition 65 and can therefore be sold without a Proposition 65 warning label.

Affected substances are listed in a document titled *Chemicals Known to the State to Cause Cancer or Reproductive Toxicity* by the Office of Environmental Health Hazard Assessment (OEHHA) of the Environmental Protection Agency of the State of California. This statement was compiled based on the version of the list published on 11 June 2010. Maximum allowable exposure limits are set by the OEHHA in a document titled *Proposition 65 Safe Harbour Levels*. This statement was compiled based on the version published in February 2009.

Epoxy derivatives (BADGE, BFDGE, NOGE)

Commission Regulation (EC) No 1895/2005 of 18 November 2005 imposes specific migration limits on certain epoxy derivatives, namely 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether (BADGE), bis(hydroxyphenyl)methane bis(2,3-epoxypropyl)ether (BFDGE) and other novolac glycidyl ethers (NOGE) in articles which come into contact with food. Based on the information contained in this statement; articles made exclusively from Sasol Base Chemicals Polypropylene are expected to comply with the requirements of this act.

REACH & SVHC's

Regulation (EC) No 1907/2006 of the European Parliament and of the Council (commonly known as REACH, for *Registration, Evaluation, Authorisation and Restriction of Chemicals*) came into effect on 01 June 2007. Its stated objectives are to ensure a high level of protection of human health and the environment as well as ensuring the free movement of substances, on their own, in preparations and in articles, while enhancing competitiveness and innovation. It should also promote the development of alternative methods for the assessment of the hazards of substances.

Polymers are exempt from pre-registration and registration under REACH (Article 2[9]). However, the monomers used in the production of polymers do have to be pre-registered and registered (Article 6[3]). Sasol Base Chemicals is not domiciled in the European Union and is therefore not allowed to participate directly in the REACH processes. To ensure that customers, agents & distributors in Europe retain the freedom to import, trade and use Sasol Base Chemicals' polypropylene; Sasol Solvents Germany GmbH has been appointed as Only Representative under REACH by Sasol Base Chemicals. It can be confirmed that the monomers used by Sasol Base Chemicals has been pre-registered before the relevant deadline.

As part of its responsibilities under REACH, Sasol Base Chemicals can confirm that no SVHC (Substance of Very High Concern), as defined in the updated candidate list published by ECHA, is expected to be present in Sasol Base Chemicals Polypropylene at a concentration exceeding 0.1% by mass.

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Given the dynamic nature of REACH at the time of writing, more detailed information on REACH & Sasol Base Chemicals Polypropylene is available from Sasol Base Chemicals on request.

Chemical substances absent

All grades of polypropylene produced and sold by Sasol Base Chemicals are manufactured without the intentional addition of any of the chemical substances or groups of substances listed below:

- Acrylamide
- Antimony
- Aromatic amines
- Arsenic
- Asbestos
- Azo-compounds
- Barium
- Benzene
- Benzophenone
- Bisphenol A
- Bisphenol A diglycidyl ether (BADGE)
- Bisphenol F diglycidyl ether (BFDGE)
- Butyl benzyl phthalate (BBP)
- Butylated hydroxy toluene (BHT)
- Cadmium
- Carbamide (urea)
- Hexavalent chromium
- Cobalt
- Copper
- Di-butyl tin
- Di-cyclo-hexyl phthalate (DCHP)
- Di-iso-decyl phthalate (DIDP)
- Di-(2-ethylhexyl) phthalate (DEHP/DOP)
- Di-ethyl phthalate (DEP)
- Di-n-hexyl phthalate (DNHP)
- Dioxins
- Di-methoxy-ethyl phthalate (DMEP)
- Di-methyl-cyclo-hexyl phthalate (DMCHP)
- Dimethyl fumarate (DMF)
- Dimethyl phthalate (DMP)
- Di-iso-nonyl phthalate (DINP)
- Di-iso-octyl phthalate (DIOP)
- Di-n-octyl phthalate (DNOP)
- Di-iso-pentyl phthalate (DIPP)
- Di-n-pentyl phthalate (DPP/DNPP)
- 2,6-Di-tert-butyl-4-methylphenol (BHT)
- Epichlorohydrin
- Epoxidised soybean oil (ESBO)
- Formaldehyde
- Hydrobenzophenone
- Lead
- Melamine
- Mercury
- 4-Methyl benzophenone (4MeBP)
- Mono-butyl tin
- Natural rubber latex
- Nickel
- Nitrosamines
- Nonylphenol

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- Novolac glycidyl ethers (NOGE)
- n-Pentyl-iso-pentyl phthalate (NIIPP)
- Organotin compounds (TBT, DBT, MBT)
- Polycyclic aromatic hydrocarbons (PAH's)
- Polybrominated biphenyls (PBB's)
- Polybrominated diphenyl ethers (PBDE's)
- Polychlorinated biphenyls (PCB's)
- Polychlorinated naphthalenes (PCN's)
- Perfluoro-octane sulfonate (PFOS)
- Perfluoro-octanoic acid (PFOA)
- Selenium
- Toluene
- Tri-butyl tin
- Tris(nonylphenyl) phosphate
- Vinyl acetate
- Xylene

Please be advised that Sasol Base Chemicals Polypropylene is not routinely analysed for the presence of these substances and that technically unavoidable traces might be present. However, the total combined level of all the substances listed above is expected to be below 0.1%*m/m* at all times.

To simplify the interpretation of this statement some substances are referred to in groups or using archaic nomenclature. Unique chemical identifiers of substances (IUPAC names & CAS or EINECS numbers) can be supplied by Sasol Base Chemicals on request.

Please do not hesitate to contact us should you require any further information.

Disclaimer:

- This statement replaces all earlier statements from Sasol Base Chemicals on the above mentioned topic(s). Please contact Sasol Base Chemicals regularly for up-to-date regulatory information.*
- This statement will remain valid until replaced by a newer version from Sasol Base Chemicals on the above mentioned topic.*
- Sasol Base Chemicals provides this information in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly, Sasol Base Chemicals will not be responsible for damages resulting from use of or reliance upon this information.*
- This statement only applies to virgin polymer granules and powders as supplied by Sasol Base Chemicals and does not include:*
 - *Modification of the polymer by the intentional or accidental addition of any other substance to it.*
 - *Modification of the polymer resulting from processing.*
 - *Modification of the polymer resulting from storage.*
- This statement does not claim or guarantee that Sasol Base Chemicals' products are suitable for any specific application. Users of Sasol Base Chemicals' resins should independently access the regulatory status of their own products before claiming suitability for use or compliance with any regulation or product standard.*

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TAIRIPRO[®] PP Resin

Property	Unit	Test Method	Test Condition	Injection Molding
				K1108
Melt Flow Index	g/10min	ASTM D-1238	230℃x2.16kg	10
Tensile Strength at Yield	kg/cm ² (Mpa)	ASTM D-638	23℃	360 (35)
Tensile Elongation at Break	%	ASTM D-638	23℃	>200
Flexural Modulus	kgf/cm ²	ASTM D-790A	23℃	15000 (1470)
Rockwell Hardness	R-scale	ASTM D-785	23℃	100
Izod Impact Strength	kg-cm/cm (J/m)	ASTM D-256	23℃ 1/8"bar	3.0 (29)
			-20℃ 1/8"bar	—
Heat Deflection Temperature	℃	ASTM D-648	Unannealed 1/4" bar	115
Molding Shrinkage Temperature	%	FCFC Method	23℃	1.4~1.8
Specific Gravity		ASTM D-792	23℃/23℃	0.9
FDA Compliance				Yes
Flammability		UL-94	FileNo.E162823	HB
CHARACTERISTICS	Good stiffness, Good luster			

All tests were run under laboratory conditions, ASTM, ISO testing procedures. The data are intended as a general guide only.

Formosa Chemicals & Fibre Corp. Plastics Div.

TEL: +886-2-27122211 / FAX: +886-2-27131649 /

Address: No.201, Dunhua N. Rd., Songshan Dist., Taipei City 105, Taiwan

Website: <https://en.fcfc-plastics.com/>



Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product: Insulweb
Chemical Family: Thermoplastic Polyolefin

Emergency Phone Contact: Chemtrec (24 Hours)
Emergency Phone Number: 1-800-424-9300

Section 2 – Hazards Identification

Emergency Overview

None of the components in this material are considered hazardous.

Route of Exposure-Skin

Possible mechanical irritation.

Route of Exposure-Eye

Not expected to be a concern, given that this product is an inert solid.

Route of Exposure -Ingestion

Not Applicable

Route of Exposure-Inhalation

Not expected to be a concern, given that this product is an inert solid.

HMIS Ratings*

Health: 0 Fire: 1 Reactivity: 0 Personal Protection: A

**See Section 16*

Section 3 - Composition

<u>CAS #</u>	<u>Component</u>	<u>Percent</u>
9003-07-0	Polypropylene	100%

Component Information: This product is not hazardous according to the criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). This product is considered an article and does not require an MSDS.

Section 4 - First Aid Measures

First Aid-Skin

Wash affected area with soap and water.

First Aid-Eye

Rinse eyes with water for at least 15 minutes. If irritation persists, contact a physician.

First Aid-Ingestion

Not Applicable

First Aid-Inhalation

Not Applicable

First Aid-Notes to Physician

No health conditions aggravated by exposure are identified. Contact the poison control center if any problem occurs.

Section 5 - Fire Fighting Measures

Flash Point: >329°C(625°F)

Auto Ignition: >357°C(675°F)

Lower Explosive Limit (%): Not Applicable

General Fire Hazards

Solid material may burn upon extended exposure to open flames.

Hazardous Combustion Products

Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Water spray, foam, carbon dioxide, or dry chemical

Fire Fighting Equipment/Instructions

As in any fire, wear a self-contained breathing apparatus and full protective gear.

NFPA Ratings*

Health: 0 Fire: 1 Reactivity: 0

**See Section 16*

Method Used: Not Applicable

Flammability Classification: Not Applicable

Upper Explosive Limit (%): Not Applicable

Section 6 - Accidental Release Measures

Containment Procedures

Sweep waste fabric into a pile.

Clean -Up Procedures

Sweep waste fabric into a waste container and recycle, incinerate or landfill in conformity with local disposal regulations.

Evacuation Procedures

Not Applicable

Special Procedures

None

Section 7 - Handling and Storage

Handling Procedures

Avoid exposure to heat, sparks or open flames.

Storage Procedures

Store material in cool (below 140°F) warehouse that is equipped with a sprinkler system.
 Ensure product is not stacked too high.
 Store product off the floor to prevent water damage.

Section 8 - Exposure Controls/Personal Protection**Component Exposure Limits**

Component	CAS	Exposure Limits
Polypropylene	9003-07-0	ACGIH: None Available OSHA: None Available

Engineering Controls

Normal room ventilation is usually adequate.

Personal Protective Equipment**Personal Protective Equipment-Eyes/Face**

None usually required

Personal Protective Equipment-Skin

None usually required

Personal Protective Equipment-Respiratory

None usually required

Personal Protective Equipment-General

Follow individual plant safety rules.

Section 9 - Physical & Chemical Properties

Appearance:	White Fabric	Odor:	Essentially Odorless
Physical State:	Solid	pH:	Not Applicable
Vapor Pressure:	NIL	Evaporation Rate:	Not Applicable
Boiling Point:	Not Applicable	Melting Point:	>140°C
Solubility (H₂O):	Negligible	Specific Gravity:	0.88-0.99
Vapor Density:	Not Applicable	Percent Volatiles:	NIL
Packing Density:	Not Applicable		

Section 10 - Chemical Stability & Reactivity Information**Chemical Stability**

Stable under ordinary conditions of use and storage.

Conditions to Avoid

Combustible when exposed to open flames.

Incompatibility

None Known

Hazardous Decomposition

Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbon may be emitted upon decomposition.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

No components of this product are known to be hazardous according to the criteria specified in 29CFR1910.1200 (Hazard Communication Standard).

Component Analysis

Component	CAS	LD50/LC50
Polypropylene	9003-07-0	<u>Rat</u> ; <u>LD 50</u> ; <u>Route</u> : Intraperitoneal; <u>Dose</u> : >110mg/kg; <u>Toxic Effects</u> : lacrimation; Sense organs and special senses-ptosis; Behavioral-convulsions or effect on seizure threshold; <u>Reference</u> : Yakuri to Chiryo. Pharmacology and Therapeutics 14:1109, 1986 <u>LD50</u> ; <u>Route</u> : Intravenous; <u>Dose</u> : >99mg/kg; <u>Toxic Effects</u> : Behavioral-tremor; Lungs, Thorax, or Respiration-cyanosis; Nutritional and Gross Metabolic-body temperature decrease; <u>Reference</u> : Yakuri to Chiryo. Pharmacology and Therapeutics 14:1109, 1986.

Carcinogenicity

General Product Information

Product is considered non-hazardous.

Epidemiology

No information available.

Neurotoxicity

No information available.

Mutagenicity

No information available.

Teratogenicity

No information available.

Other Toxicological Information

Specific toxicity testing has not been performed on this product. Hazard evaluation is based on information from similar products, raw material data, and technical literature.

Section 12 - Ecological Information

Ecotoxicity

General product Information

No available information.

Environmental Fate

No available information.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

General Product Information

None identified.

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components

Disposal Instructions

Dispose of container and unused contents in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

Section 14 - Transportation Information**Transportation Regulations**

Product is not regulated for transportation.

Section 15 - Regulatory Information**US Federal Regulations****General Product Information**

This material meets the criteria of 21CFR177.1520 of the FDA food contact regulations.

Component Analysis-Federal

Component	CAS #	SARA 302 (40CFR355 Appx A)	SARA 313 (40CFR372.65)	CERCLA (40CFR302.4)
Polypropylene	9003-07-0	No	No	No

State Regulations**General Product Information**

Other state regulations may apply. Check individual state requirements.

Component Analysis-State

The following components appear on one or more of the following state hazardous substances list:

Component	CAS	CA	FL	MA	MN	NJ	PA
Polypropylene	9003-07-0	No	No	No	No	No	No

Component Analysis-WHMIS IDL

No components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List.

Additional Regulatory Information**Component Analysis-Inventory**

Component	CAS	TSCA	DSL	EINECS
Polypropylene	9003-07-0	Yes	Yes	Yes (6-402)

Section 16 - Other Information

Other Information

Material for this MSDS was taken from MSDS's for raw materials

PERSONAL PROTECTION EQUIPMENT (PPE)

<u>Personal Protection Equipment Code</u>	<u>Personal Protection Equipment</u>
A	safety glasses
B	safety glasses and gloves
C	safety glasses, gloves and an apron
D	face shield, gloves and an apron
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) / NATIONAL FIRE PROTECTION AGENCY (NFPA)	
<u>Hazard Scale for HMIS / NFPA</u>	<u>HMIS / NFPA Explanation</u>
0	Minimal
1	Slight
2	Moderate
3	Serious
4	Severe
*	Used by HMIS to depict a Chronic Hazard (designate a material as a carcinogen or for materials known to have an adverse effect given chronic exposure)

MSDS History

Format revised 10/03; Typographical errors corrected 1/10/05; Corrections made to Section 9 2/25/05; Updated contact information 8/29/05; Updated information and changed name 11/29/06; Updated formatting 6/22/07; Change contact name 8/13/07; Updated contact information and date 02/09/09; Add information about PPE/HMIS/NFPA 3/24/09

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