SAFETY DATA SHEET

Parslen ZH520J

Version 1 Revision Date 07/14/2017 **Navid Zar Chimi Co. (NZC)**

MATERIAL SAFETY DATA SHEET (MSDS)

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

PRODUCT NAME:	Polypropylene
OTHER NAMES:	Polypropylene Homopolymer
TRADE NAME:	***Parslen ZH520J***
RECOMMENDED USE:	Manufacture of plastic articles by injection molding, extrusion or other conversion process.
SUPPLIER NAME:	**NAVIDZARCHIMI Ind. Co.**
ADDRESS:	No. 13, East Armaghan, Nelson Mandella Ave., Tehran 1915615165-IRAN
TELEPHONE NUMBER:	+98 (21) 22044450-4

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA.

UN NUMBER, DANGEROUS GOODS CLASS, HAZCHEM CODING AND POISONS SCHEDULES DO NOT APPLY TO THIS MATERIAL.

3. INGREDIENTS

Chemical Name	CAS Number	Proportion
Polypropylene Homo-polymer	9003-07-0	>99%
Additives for process and long term stabilisation, polymer modification aids	various	<1%

4. FIRST AID

EYE:	If irritation occurs, hold eyes open and flood with water for 15 mins. If irritation persists, seek medical attention.
SWALLOWED:	No specific measures are required in case of ingestion of the product. Get medical advice if necessary.
SKIN/BURNS:	Should be cooled with cold water or ice. Do not use ice or cold packs if burned area covers more than 10% of the body as this may contribute to the shock. Leave burned area uncovered. DO NOT TRY TO REMOVE SOLIDIFIED PRODUCT FROM THE SKIN. Seek immediate medical advice.
INHALED:	Treatment not ordinarily required. If a large number of fumes are inhaled, keep the patient in a well ventilated area. If symptoms persist, seek medical advice.
ADVICE TO DOCTOR:	Pre-existing eye and respiratory complaints may be aggravated by exposure to product fines and fumes at processing temperatures. BURNS- No attempt should be made to remove the solidified product (it acts as a sterile dressing).

5. FIRE FIGHTING MEASURES

FLAMMABILITY:	Combustible substance. Will not burn unless preheated. Take precautions against static electricity discharges. Ensure adequate ventilation. Earth and bond all process equipment. Ensure all process equipment is flameproof.
SUITABLE EXTINGUISHING MEDIA:	Use the following extinguishing media 1) Foam. 2) Carbon dioxide. 3) Chemical powder. 4) Water fog/spray on fires.
HAZARDS FROM COMBUSTION PRODUCTS:	Product generally burns slowly with a low smoke density and flaming drips. Under certain conditions it can burn with a high smoke density. Smoke from burning polypropylene can contain various levels of toxic gases, including carbon dioxide and carbon monoxide, ketones, acroleins, aldehydes and unidentified organic compounds, depending on the amount of oxygen present.
PROTECTIVE EQUIPMENT:	Do not enter confined space without adequate protective clothing. Emergency personnel should wear: 1) Leather boots 2) Helmet and face shield 3) Leather gloves 4) Suitable fire resistant, non-melting protective clothing 5) Self contained breathing apparatus should be used.

6. ACCIDENTAL RELEASE MEASURES

SPILLAGE:	Caution: it is easy to slide and lose footing on granule spillage's. Clean up immediately. Shovel and sweep up, or use an industrial vacuum cleaner. Put into containers for reclaiming or disposal. Not biodegradable. Do not allow environmental contamination. For molten product- Hose with water and allow to cool. Scoop up solidified material and place in containers for reclaim. Refer to local waste management authority for land fill and incineration guidelines.

7. HANDLING AND STORAGE

HANDLING:	Ground and bond containers when transferring material. Ensure adequate ventilation when used at processing conditions.
STORAGE:	Store away from strong oxidising agents. Protect from heat and direct sunlight. Store under cool, dry conditions. Minimise accumulation of dust. Take precautions against static electricity discharges. Open flames prohibited.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:	No data available on polypropylene.
ENGINEERING CONTROLS:	At room temperature special ventilation is not normally required. Ventilation should be provided to remove fumes generated during processing. Dust generated in handling granular polypropylene presents no special health hazard, but atmospheric dust levels should nevertheless be minimised and the National Health & Medical Research Council's Hygienic Standard of 10 g/m^3 for nuisance dusts, observed.
PERSONAL PROTECTION:	When handling material at room temperature, no special protection is required. If large quantities of dust or fumes are present, then a dust mask or respirator complying with AS1715 or AS1716 should be utilised, as appropriate. When product is heated during processing adequate ventilation and/or engineering controls are required. Where molten product is liable or likely to come into contact with the person, the following equipment is required; 1) Full face shield. 2) Heat resistant gloves (long gauntlets). 3) Cotton combination overalls with close fit at neck and wrists. 4) Leather safety shoes or rubber boots (trousers worn outside). 5) Hard hat.

9. PHYSICAL DESCRIPTION AND PROPERTIES (Typical Figures)

APPEARANCE:	White, plastic pellet/nib/granule
ODOUR:	Odourless
VAPOUR PRESSURE:	Not applicable
VAPOUR DENSITY:	Not applicable
BOILING POINT:	Not applicable
MELTING POINT:	160-165 °C
SOLUBILITY (WATER):	Insoluble
SPECIFIC GRAVITY:	0.90 g/cm^3 @ 15 °C
FLASH POINT:	Not applicable
EXPLOSION LIMIT	Not applicable to granules
AUTOIGNITION:	390°C minimum.
LEL:	not available
UEL:	not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable.
CONDITIONS TO AVOID:	Avoid contact with strong oxidizing agents, strong alkalines and acids.
INCOMPATIBLE MATERIALS:	Strong oxidation agents

DECOMPOSITION PRODUCTS:	No hazardous decomposition products known at room temperature. At processing temperatures, some degree of degradation will occur. Although highly dependent on temperature and environmental conditions a variety of decomposition products may be present ranging from simple hydrocarbons (such as methane and propane) to toxic/irritating gases (carbon monoxide and dioxide, acrolein, acids, ketones, aldehydes).
HAZARDOUS REACTIONS:	No dangerous reactions known.

11. TOXICOLOGICAL INFORMATION:

ACUTE:	At room temperature the product is not an irritant and does not liberate dangerous fumes. In its molten state the material will have a temperature in excess of 150°C and will cause severe burns. Pre-existing eye and respiratory complaints may be aggravated by exposure to product fines (powder) and/or fumes generated at processing temperatures.
SWALLOWED:	The material is considered non-toxic and no specific measures are required in case of ingestion.
EYE:	Product fines may cause mechanical irritation to eyes. Rinse eye with cold running water for several minutes then seek medical advice. Process vapours may irritate eyes, ensure adequate ventilation.
SKIN:	Contact with molten material can cause severe burns.
INHALATION:	Product fines may cause mechanical irritation to the respiratory system.
	Process vapours could be irritating to the respiratory system.
CHRONIC:	Limited toxicological studies show no signs of toxicity to animals. No data is available for humans.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	Not available.
PERSISTENCE AND DEGRADABILITY:	This product is not biodegradable.
MOBILITY:	Floats on water.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:	1) Recycle (reprocess). 2) Refer to local waste management authority for land fill and incineration guidelines.

14. TRANSPORT INFORMATION

Polypropylene is not defined as a Dangerous Good by the Australian Code of the Transport of Dangerous Good by Road and Rail.

UN NUMBER:	Not applicable
CLASS AND SUBSIDIARY RISK:	None allocated
PACKING GROUP:	None allocated
HAZCHEM CODE:	Not applicable

15. REGULATORY INFORMATION

AICS:	All components in this product are listed on the Australian Inventory of Chemical Substances (AICS).
POISON SCHEDULE:	None allocated
AGRICULTURAL AND VETERINARY CHEMICALS ACT 1988:	Not applicable