SAFETY DATA SHEET

SECTION 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name : 1100NK

Product Type : Polypropylene Homopolymer Plastic Resin

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Raw material for plastic industry, resin, injection molding, plastic molding, compounding or other conversion process.

1.3 Detail of the Supplier of the safety data sheet

Manufacturer/Supplier : IRPC Public Company Limited

Address : 299 Moo. 5 Sukhumvit Road, Amphur Muang, Rayong THAILAND

Website : www.irpc.co.th, https://polimaxx.irpc.co.th

1.4 Emergency call : +66(0) 38802560

Section 2 - Hazards Identification

2.1 Classification of the substance or mixture

This product is not classified as dangerous according to Regulation (EC) No 1272/2008 and GHS

2.2 Label elements

Pictogram : Not Applicable

Signal Word : Not Applicable

Hazard Statement : -

Precautionary Statement : -

2.3 Other hazards

Section 3 - Composition / Information on Ingredients

3.1 Substances

Chemical Name	CAS Number	EC Number	Percent weight	SCL, M-factor, ATE
Polypropylene	9003-07-0	Polymer	> 99%	-
Additives	-	-	< 1%	-

3.2 Additional information

The product has not been contained dangerous substances above the limits.

Section 4 - First-aid Measures

4.1 Description of first aid measures

General notes : Remove affected persons from the danger area and ensure that is the safety area.

Following inhalation : Move the exposed person to fresh air.If breathing is difficult, give oxygen.Get medical attention if breathing difficulties continue.

Following skin contact : If molten material comes in contact with the skin, cool under ice water or a running stream of water.DO NOT attempt to remove the material from the skin.Get medical attention.

Following eye contact : Remove contact lenses, if worn.Get immediate medical attention.

Following ingestion : Not a probable route of exposure.If person is conscious, rinse mouth with water.Do not induce vomiting unless directed to do so by a physician.Seek medical advice.

Self - protection of the first aider : Please see the detatil in Section6 and Section 8

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

In the case of accident or if you feel unwell, seek medical advice immediately.

SECTION 5 - Firefighting measure

5.1 Extinguishing media

Suitable extinguishing media : Dry chemicals, foam, water, carbon dioxide and halon.

Unsuitable extinguishing media : Avoid using direct streams of water on molten burning material.

5.2 Special hazards arising from the substance or mixture

Hazards during fire-fighting : Carbon monoxide, carbon dioxide, original monomer other hydrocarbon oxidation products.

5.3 Protective equipment

Use a mask with universal filler.
Use self-contained breathing apparatus and full protective clothing.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.1.1 For non-emergency personnel

Protective equipment : Observe the usual precautionary measures for chemicals.Wear suitable protective equipment.

Emergency procedure : Implement according to procedure manual and safety data sheet.

6.2 Environmental precautions : Discharge into the environment must be avoided.

6.3 Method and material for containment and cleaning up

6.3.1 For containment : Place waste in an appropriate container for disposal.

6.3.2 For cleaning up : Collect spilled material using a method that minimizes dust generation (e.g., wet methods, HEPA vacuum).

6.3.3 Other information : Not available

6.4 Reference to other sections : See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

Section 7 - Handling and Storage

7.1 Precaution for safe handling

Protective measures : Observe the usual precautionary measures for chemicals.Care should be taken during handling to prevent damage to packaging.

Measures to prevent fire : Avoid smoking, naked lights or ignition sources.

Measures to prevent aerosol and dust generation : Handling of pellets may form dust.Avoid dust generation.

Measures to protect the environment : Exhaust ventilation must be provided in such a way from the personnel handling the product and the efficiency of the exhaust equipment should be periodically checked.Management and monitoring according to local authority regulation.

Advice on general occupational hygiene : Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Provide adequate general and local exhaust ventilation.

Packaging materials : Protect containers against physical damage and check regularly for leaks.Incompatible material should not be used.

Requirements for storage rooms and vessels : Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area.

Further information on storage conditions : Keep away from moisture, excessive heat and sources of ignition.

7.3 Specific end use(s)

Recommendations : See the recommended processing condition and technical data sheet on this product for further information

Industrial sector specific solutions : No data available

SECTION 8 - Exposure controls/personal protection

8.1 Control parameters

Exposure limits : No exposure limit value known

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses :

Ensure that eyewash stations and safety showers are proximal to the work-station location.

Structural measure to prevent exposure : Observe the chemical safety data sheet.Wearing the protective equipment strictly.

Organizational measures to prevent exposure : Strictly implement according to procedure manual and safety data sheet.

Technical measures to prevent exposure : Provide adequate general and local exhaust ventilation.

8.2.2 Personal protection equipment

8.2.2.1 Eye and face protection : Wear safety glasses with side shields, goggles or face shield.

8.2.2.2 Skin protection : Gloves required when handling hot material.In case of fire, wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Other skin protection : No data available

8.2.2.3 Respiratory protection : No special respiration protection is normally required.

8.2.3 Environmental exposure controls : Provide adequate ventilation when processing material at elevated temperatures.

Substance/mixture related measures to prevent exposure : For molten materials: Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/filling work stations where the material is heated.

Instruction measures to prevent exposure : None specific

Organizational measures to prevent exposure : Monitoring and control the limit of emission, water discharge, and industrial waste according to local authority.

Technical measures to prevent exposure : Appropriate technology should be used.

SECTION 9 - Physical and chemical properties

9.1 Information on basic physical and chemical properties

Apprearance	:	Opaque, translucent, colorless pellets or white fluff (powder), solid
Odour	:	Slight to none
Colour	:	colorless
Boiling Point	:	Not Applicale
Initial Boiling Point	:	Not Applicable
Flash Point	:	348°C ASTM D1929
Melting Point	:	130 - 170°C
Vapour Pressure	:	Not Applicale
Auto ignition temperature	:	380°C
Solubility	:	Insoluble in water
Viscosity	:	Not Applicale
Upper/Lower flammability or explosive limit	:	Not Applicable
pH	:	Not Applicable
Relative density	:	Not Applicable
Vapour density	:	Not Applicable
Partition characteristics	:	Not Applicable
Specific Gravity	:	0.85 - 0.95 at 25 C (Water = 1)
Partition coefficient: n-octanol/water	:	Not Applicable
Decomposition temperature	:	438°C
Explosive properties	:	Not Applicable
Bulk Density	:	400 (powder) - 600 (pellet) kg/m3

9.2 Other safety information : No data available

SECTION 10 - Stability and reactivity

10.1 Reactivity : Non-reactivity under normal handling and storage conditions.

10.2 Chemical stability : This material is considered a stable thermoplastic, with no chemical reactivity under normal ambient and anticipated handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions : Non hazards under normal handling and storage conditions

10.4 Condition to avoid : Avoid heating above the recommended processing temperature.

10.5 Incompatible material : May react with free halogens.

10.6 Hazardous decomposition products : Small quantities of low molecular weight hydrocarbons, carboxylic acids, carbon oxides can be formed during thermal processing.

SECTION 11 - Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

No relevant studies found.

Acute toxicity : Conclusive but not sufficient for classification.

Skin corrosion/irritation : No data available

Serious eye damage/irritation : No data available

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration hazard : No data available

11.2 Irritating/corrosive effects

Eye Irritation : Solid particles may cause transient irritation from mechanical abrasion.

Skin Irritation : Molten material may cause thermal burns.

Inhalation : Process fumes may cause irritation.

Ingestion : May cause a choking hazard if swallowed.

Section 12 - Ecological Information

12.1 Toxicity : No relevant studies found.

12.2 Persistence and degradability

Abiotic Degradation : No data available

Physical and photo-chemical elimination : No data available

Biodegradation : This material is not expected to be readily biodegradable.

12.3 Bioaccumulative potential : No data available.

Partition coefficient n-octanol/water (log Koe) : No data available

Bioconcentration factor (BCF) : No data available

12.4 Mobility in soil : This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Known or predicted distribution to environmental compartments : No relevant studies identified.

Surface tension : No data available.

Adsorption/Desorption : No data available

12.5 Results of PBT and vPvB assessment : No relevant studies identified.

12.6 Endocrine disrupting properties : No relevant studies identified.

12.7 Other adverse effects : This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.8 Additional information : No data available.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal : Observe all label safeguards until containers are cleaned and destroyed.Shelf life considerations should also be applied in making decisions of this type.

Waste codes / waste designation according to LoW : No data available

13.1.2 Waste treatment-relevant information : Dispose of by: burial in a land-fill specifically licensed to accept chemical and/or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)

13.1.3 Sewage disposal-relevant information : Do not allow this material to drain into sewers/water supplies.

13.1.4 Other disposal recommendations : No data available

Section 14 - Transport Information

Regulatory information	UN number	Classes	Packing group	Label	Additional information
DOT	Not regulated	-	-	-	
ADR/RID	Not regulated	-	-	-	
IMDG CODE	Not regulated	-	-	-	
ICAO/IATA	Not regulated	-	-	-	

Environmental hazards : This product has not severe effect to environment.

Special precautions for user : not available

Maritime transport in bulk according to IMO instruments : not available

Section 15 - Regulatory Information

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

US Toxic Substances Control Act : All components of this product are on the TSCA Inventory.

European Inventory of Existing Commercial Chemical Substances (EINECS) :

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

Canada - WHMIS : Material is not controlled under WHMIS.

15.2 Chemical Safety Assessment

No chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16 - Other Information

16.1 Indication change : According to Regulations (EC) 1907/2006 (REACH), 1272/2008 (CLP), and Commission Regulation (EU) 2020/878

16.2 Abbreviation and acronyms

ADR	:	European agreement concerning the international carriage of dangerous goods by road.
CLP	:	Classification and Labeling of Packaging
DOT	:	Department of Transportation
GHS	:	Globally Harmonized System of Classification and Labeling of Chemicals
HMIS	:	Hazardous Materials Identification System
IATA	:	International air transport association
ICAO	:	International Civil Aviation Organization
IMDG-CODE	:	International maritime dangerous goods code
NFPA	:	National Fire Protection Association
NIOSH	:	The National Institute for Occupational Safety and Health
RID	:	Regulations concerning the international carriage of dangerous goods by rail.
WHMIS	:	Workplace Hazardous Materials Information System

16.3 Key literature references and sources for data :

http://echa.europa.eu/https://cameochemicals.noaa.gov

16.4 Training advice : No data available

16.5 Further information

NFPA - USA

Health : 0 Flammability : 1 Reactivity : 0

HMIS

Health : 0 Flammability : 1 Reactivity : 0

SDS Information

GHS Revision : 10

Revision Date : 05/02/2024

Print Date : 30/07/2024 14:40:57

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