

# SAFETY DATA SHEET

In According with 3rd revision GHS SDS

#### Section 1 - Identification

**Product Name** : AN450R

**Product Type** : Flame Retardant **Product Description** : ABS, ABS Resin

 $\begin{array}{lll} \textbf{Chemical Name} & : & A crylonitrile \ Butadiene \ Styrene \\ \textbf{Chemical Formula} & : & (C_3 - H_3 - N)_n \ (C_4 - H_6)_n (C_8 - H_8)_n \\ \end{array}$ 

**Chemical Family** : Thermoplastic Polymer

**Product Use** : Can be used to produce extrusion molded articles for commercial or industrial

products.

**Manufacturer**: Thai ABS Company Limited (A Company of IRPC Group)

299 Moo 5 Sukhumvit Road Amphur Muang Rayong Thailand

**Emergency Call** : +66(0) 38 802560

Website : www.irpc.co.th, www.irpcmarket.com

## Section 2 - Hazards Identification

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

1272/2008.

**Directive 67/548/EEC**: This product is not classified as dangerous according to EU Directive 67/548/EEC.

**Regulation (EC) No 1907/2006**: This product is complied REACH Regulation (EC) No 1907/2006.

GHS : Not classified
Label elements : Not applicable
Other hazards : Not applicable

# Section 3 - Composition / Information on Ingredients

| Chemical Name                |               | CAS Number  | EC Number | Percent weight |
|------------------------------|---------------|-------------|-----------|----------------|
| Acrylonitrile Butadiene Styr | ene Copolymer | 9003-56-9   | Polymer   | 75             |
| Flame Retardant Additives    |               | Proprietary | -         | 23             |
| Other Additives              |               | Proprietary | -         | < 2            |

Product contains high molecular weight polymers, and is not expected to be chemically active under normal conditions of handling and processing

#### **Section 4 - First-aid Measures**

**General information**: Clothing and shoes must be immediately removed, decontaminated

**Skin Exposure** : In case of skin contact with hot polymer immediately immerse in or flush with

clean, cold water. If irritation develops, seek medical attention.

**Eyes Exposure** : Flush with water for at least 20 minutes. Seek medical attention if irritation persists **Inhalation** : Remove person to fresh air. Assist in breathing if necessary. Seek medical attention.

Ingestion : Seek medical attention if a significant amount is swallowed





# **Section 5 - Fire-fighting Measures**

Suitable extinguishing agents: Dry chemicals, foam, water, carbon dioxide and halon. Do not use water jets

for large fires.

**Hazards during fire-fighting**: Carbon monoxide, carbon dioxide, hydrogen cyanide. **Protective equipment**: Wear self-contained respiratory protective device.

#### Section 6 - Accidental Release Measures

**Personal precautions** : Avoid inhalation.

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

Cleanup:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Sweep/shovel up or spray with water and collect in a suitable container. Allow molten material to solidify before disposal. Avoid production of dust.

## **Section 7 - Handling and Storage**

**Handling** : Do not handle material without proper protective equipment. Provide

adequate ventilation. Maintain good housekeeping in work areas.

**Storage conditions** : Store in a cool, dry place in the original container when possible. Store below

50°C. Keep away from moisture, excessive heat and sources of ignition. Do not

place in direct sunlight.

# Section 8 - Exposure Controls / Personal Protection

## **Exposure limits**

| Component Name | Reference | TWA |       | STEL |       |
|----------------|-----------|-----|-------|------|-------|
| Component Name |           | ppm | mg/m3 | ppm  | mg/m3 |
| Styrene        | OSHA PEL* | 100 | -     | -    | -     |
|                | ACGIH TLV | 20  | -     | 40   | -     |

\*OSHA PEL: Acceptable ceiling concentration (ACC) 200 ppm, maximum concentration above ACC 600 ppm

**Exposure control**: Ventilation, enclosures, or other controls may be needed to keep airborne

contaminates below exposure limits.

## Personal protective equipments

Respiratory protection : Wear respiratory protection if ventilation is inadequate. Breathing protection

device is needed if dust is formed.

 $\label{protection:chemical workers goggles recommended.} \\$ 

Protective clothing : Gloves required when handling hot material. In case of fire, wear MSHA/NIOSH

approved self-contained breathing apparatus or equivalent and full protective gear.

Ventilation : Provide adequate ventilation when processing material at elevated temperatures.

Other protective equipments: N.A.

## **Section 9 - Physical and Chemical Properties**

**Physical State** : Solid Form

**Odor and Appearance** : Plastic pellets in natural or compounded color with characteristic odor.

**Softening Point** : > 100 °C **Specific Gravity (Water =1)**: 1.04-1.07

Percent Volatile (Vol %): Nil

**Solubility in water** : Insoluble

**Solubility (Qualitative)** : Soluble in polar solvents



บริษัท ไออาร์พีซี จำกัด (มหาชน)



## **Section 10 - Stability and Reactivity**

**Stability** : Stable

Condition to Avoid : Avoid temperatures above 300°C.

Material to Avoid : Avoid solvents and oxidizing agents .

**Dangerous decomposition**: Carbon monoxide, carbon dioxide, styrene, acrylonitrile, hydrocarbon, cyanide.

## **Section 11 - Toxicological Information**

## **Acute Toxicity**

| Chemical name | Route      | Species | Acute Toxic Value           |
|---------------|------------|---------|-----------------------------|
| Styrene       | Oral       | Rat     | LD <sub>50</sub> 5000 mg/kg |
| Styrene       | Inhalation | Rat     | -                           |

#### Irritating/corrosive effects

Eye Irritation : Prolonged contact can causes eye irritation
Skin Irritation : Prolonged contact can cause skin irritation
Respiratory Irritation : May cause allergic respiratory response.\*
Ingestion Irritation : Swallowing larger amounts may cause injury

#### **Section 12 - Ecological Information**

**Toxicity** : No relevant studies identified.

**Persistence and degradability**: The product is not easily biodegradable.

**Bio-accumulative potential**: Insoluble in water. Not expected to be bio-accumulative.

**Mobility in soil** : No relevant studies identified.

**Other adverse effects** : Not expected to pose a significant ecological hazard.

## **Section 13 - Disposal Considerations**

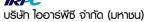
#### **Disposal methods:**

Transfer to an approved disposal area in accordance with national, state and local regulations. Recycling uncontaminated packaging recommended.

Package must be recycled in compliance with national legislation and environmental regulations.

#### **Section 14 - Transport Information**

| Regulatory information | UN number     | Classes | Packing<br>group | Label | Additional information |
|------------------------|---------------|---------|------------------|-------|------------------------|
| ADR / RID Class        | Not regulated | -       | -                | -     | -                      |
| IMDG Class             | Not regulated | -       | -                | -     | -                      |
| ICAO / IATA Class      | Not regulated | -       | -                | -     | -                      |





## **Section 15 - Regulatory Information**

#### **US. Toxic Substances Control Act**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 29 CFR 1910.1200.

#### **SARA 313**

Material is not subject to SARA 313 reporting requirements.

#### OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

#### HMIS-USA

Health - 0, Flammability - 1, Reactivity - 0

#### National Fire Protection Association - USA

Health - 0, Flammability - 1, Reactivity - 0

## **European Inventory of Existing Commercial Chemical Substances (EINECS)**

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

## EU Directives 67/548/EEC, 1999/45/EC and Regulation (EC) No 1272/2008

The product is not classified as dangerous for supply according to the Regulation (EC) No 1272/2008 and the EC directive 67/548/EEC and 1999/45/EC.

#### Canada - WHMIS

Material is not controlled under WHMIS.

#### **Section 16** – Other Information

The information in this document is based on our best present. Nevertheless, it does not constitute a guarantee for any specific product features and does not establish any a legally binding contract.

Department issuing SDS: Petrochemical Scheduling and Inventory Division, IRPC (Public) CO., LTD.

ADR : European agreement concerning the international carriage of dangerous goods by

road.

RID : Regulations concerning the international carriage of dangerous goods by rail.

IMDG - CODE : International maritime dangerous goods codeICAO : International Civil Aviation Organization

IATA : International air transport association

GHS : Globally Harmonized System of Classification and Labeling of Chemicals

WHMIS : Workplace Hazardous Materials Information System

The information above is believed to be accurate and represents the best of our knowledge, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

