

# SAFETY DATA SHEET

Polypropylene (PP) resin

## Section 1. Identification

- GHS product identifier** : Polypropylene (PP) resin
- Other means of identification** : 70-3950, 13-series, 14-series, 100-series, H-series, KL-series, KS-series, KV-series, L-series, N-series, R-series, T-series, TS01, W-series, Experimental PP formulations designated by an "x" in the grade name, PP homopolymer, PP copolymer, PP terpolymer, widespec PP, offgrade PP, and generic prime PP.
- Covers all commercial and experimental polypropylene homo- and co-polymer products.
- For product specific information please see our technical and regulatory documents online at [www.ineos.com](http://www.ineos.com) or contact your INEOS account representative.
- Product type** : Pellets./ Flakes.
- Recommended use of the chemical and restrictions to use**
- Product use** : Industrial applications.
- Area of application** : Industrial applications.
- Supplier's details** : INEOS Olefins & Polymers USA  
2600 South Shore Blvd.  
#500  
League City, Texas 77573
- e-mail address of person responsible for this SDS** : [julie.clifford@ineos.com](mailto:julie.clifford@ineos.com)
- Emergency telephone number (with hours of operation)** : USA:1 (800) 424-9300  
Outside USA:+1 703-527-3887 (CHEMTREC)

## Section 2. Hazards identification

- OSHA Classification of the substance or mixture** : COMBUSTIBLE DUSTS
- GHS label elements**
- Signal word** : Warning
- Hazard statements** : May form combustible dust concentrations in air.
- Precautionary statements**
- Prevention** : Not applicable.
- Response** : Not applicable.
- Storage** : Not applicable.
- Disposal** : Not applicable.
- Supplemental label elements** : Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.

## Section 2. Hazards identification

**Hazards not otherwise classified** : COMBUSTIBLE DUSTS. If small particles are generated during further processing, handling, or by other means, combustible dust concentrations in air may form. Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. In the event that combustible dust is generated, the hazard is posed only by the size of the particle not its chemical content because all monomers, additives and pigment are totally encapsulated within the resin and cannot be released in pure form.

No ingredient(s) of unknown acute toxicity is intentionally used in this product.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Polymer

**Common name and synonyms** : 10-3950, 13-series, 14-series, 100-series, H-series, KL-series, KS-series, KV-series, L-series, N-series, R-series, T-series, TS01, W-series, Experimental PP formulations designated by an "x" in the grade name, PP homopolymer, PP copolymer, PP terpolymer, widespec PP, offgrade PP, and generic prime PP.

Covers all commercial and experimental polypropylene homo- and co-polymer products.

For product specific information please see our technical and regulatory documents online at [www.ineos.com](http://www.ineos.com) or contact your INEOS account representative.

### CAS number/other identifiers

**CAS number** : 9003-07-0/9010-79-1/29160-13-2/25895-47-0

**Product code** : SDS# 1800

Ingredient name	Other names	%	CAS number
1-Propene, homopolymer	Not available.	0-100	9003-07-0
1-Propene, polymer with ethene	Not available.	0-100	9010-79-1
1-Butene, polymer with 1-propene	Not available.	0-100	29160-13-2
1-Butene, polymer with ethene and 1-propene	Not available.	0-100	25895-47-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.**

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : If affected by fumes from heated material, remove from source of exposure and move the affected person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Skin contact** : If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to detach polymer adhering to the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention. Cold material: Wash with soap and water.

## Section 4. First aid measures

**Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
irritation  
redness

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

**Suitable extinguishing media** : Use dry chemical powder.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : May be combustible at high temperature.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.

## Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Granules spilled on the floor can cause slipping. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 7. Handling and storage

### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Light hydrocarbon vapours can build up in the headspace of tanks. These can cause flammability/explosion hazards even at temperatures below the normal flash point (note: flash point must not be regarded as a reliable indicator of the potential flammability of vapour in tank headspaces). Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, and sampling from storage tanks.

There is a risk of being splashed with molten materials. Heated material can cause thermal burns. Do not breathe gas, fumes or vapor. When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the heated product. Pneumatic conveying of powder and pellets can generate large static electrical charges. Electrical discharge in presence of air can cause an explosion. Earth all equipment.

Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Fine dust clouds may form explosive mixtures with air. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

### Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. The main hazards are related to pallet stock slippage and forklift truck maneuvers, which can cause injury to personnel. It is highly recommended that adequate procedures covering storage handling of pallets are established and maintained. These procedures must be kept up to date and regularly audited. In most cases, best practice is to stack pallets no more than 2 high. However, facilities responsible for storing the material should perform a site specific risk assessment to determine whether pallets can be stacked safely.

## Section 8. Exposure controls/personal protection

### Control parameters

Occupational exposure limits (only ingredients with exposure limits are listed).

Ingredient name	Exposure limits
Polypropylene (PP) resin	<p><b>ACGIH TLV (United States).</b>            Particulates Not Otherwise Specified            TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Inhalable            Particulates Not Otherwise Specified            TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p><b>OSHA PEL (United States).</b>            Particulates Not Otherwise Specified            TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction            Particulates Not Otherwise Specified            TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total</p>

## Section 8. Exposure controls/personal protection


- Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety glasses with side shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product. Cold material: None required. However, use of adequate ventilation is good industrial practice.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the heated product. Cold material: None required. However, use of adequate ventilation is good industrial practice.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When handling hot material, wear heat-resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product. Cold material: None required. However, use of adequate ventilation is good industrial practice.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: Solid. [Pellets./ Flakes.]
<b>Color</b>	: White to yellowish.
<b>Odor</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting point</b>	: 135 to 167°C (275 to 332.6°F)
<b>Boiling point</b>	: Not available.
<b>Flash point</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 0.85 to 0.965
<b>Solubility</b>	: Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: The product is insoluble in water and octanol.
<b>Auto-ignition temperature</b>	: >340°C (>644°F)
<b>Decomposition temperature</b>	: >300°C (>572°F)
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	: If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
<b>Incompatible materials</b>	:  Reactive or incompatible with the following materials: oxidizing materials
<b>Hazardous decomposition products</b>	: Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.

## Section 11. Toxicological information

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation.

**Information on toxicological effects (Listed for the components where information is available.)**

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-Propene, homopolymer	LD50 Oral	Rat	>8 g/kg	-

- : Not available.

**Irritation/Corrosion** : Not available.

**Sensitization** : Not available.

**Specific target organ toxicity (single exposure)** : Not available.

**Specific target organ toxicity (repeated exposure)** : Not available.

**Aspiration hazard** : Not available.

### Potential acute health effects

**Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
irritation  
redness

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

**General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

### Numerical measures of toxicity

**Acute toxicity estimates** : Not available.

### Mutagenicity



## Section 11. Toxicological information

**Conclusion/Summary** : No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as a mutagen.

### Carcinogenicity

**Conclusion/Summary** : None of the components in this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

### Classification

Product/ingredient name	OSHA	IARC	NTP
1-Propene, homopolymer	-	3	-

+: Listed

- : Not applicable.

IARC 1 1, Carcinogenic to humans

IARC 2A 2A, Probably carcinogenic to humans

IARC 2B 2B, Possibly carcinogenic to humans

IARC 3 3, Not classifiable as to its carcinogenicity to humans

IARC 4 4, Probably not carcinogenic to humans

### Reproductive toxicity

**Conclusion/Summary** : No known significant effects or critical hazards.

### Teratogenicity

**Conclusion/Summary** : No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

## Section 12. Ecological information

### Ecotoxicity

**Conclusion/Summary** : Wildlife may ingest plastic pellets or bags. Although not toxic, such materials may physically block the digestive system, causing starvation or death.

### Persistence and degradability

: Not available.

### Bioaccumulative potential

: Not available.

### Mobility in soil

#### Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

#### Mobility

: This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility.

### Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

- : Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

Additional regulatory information may be available through our website, at [www.ineos.com](http://www.ineos.com).

**U.S. Federal regulations** : **United States inventory (TSCA 8b):** All components are listed or exempted.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304**

**Composition/information on ingredients** : No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : Fire hazard

**Composition/information on ingredients** : No products were found.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	0
Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

<b>Date of issue/Date of revision</b>	: 12/02/2014
<b>Date of previous issue</b>	: No previous version.
<b>Version</b>	: 2
<b>Key to abbreviations</b>	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

### References

: HCS (U.S.A.)- Hazard Communication Standard
International transport regulations Hazardous Substances Database (HSDB) : toxicology data file on the National Library of Medicine's (NLM) Toxicology Data Network (TOXNET).
Registry of Toxic Effects of Chemical Substances (RTECS)
Commission de la santé et de la sécurité du travail, Service du répertoire toxicologique (CSST) : information on chemical products used in the workplace including WHMIS classification.
National Toxicology Program (NTP), Department of Health and Human Services: Report on Carcinogens
International Agency for Research on Cancer (IARC), List of Carcinogens

## Section 16. Other information

Occupational Safety and Health Administration (OSHA) (29 CFR 1910.1001-1052) –  
Carcinogens  
National Institute for Occupational Safety and Health; NIOSH Pocket Guide to Chemical  
Hazards.  
Aquatic Toxicity Information Retrieval (AQUIRE)

✔ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.





SECTION 1: Identification

1.1. Identification

Product form : Mixtures
Trade name : 13N2010NC
Product code : TPRR3477

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

Use of the substance/mixture : Manufacture of plastics products, including compounding and conversion.

1.3. Details of the supplier of the safety data sheet

A. Schulman Inc
3637 Ridgewood Road
Fairlawn, OH 44333

Schulman Canada
945 A Southgate
Guelph, ON N1L 0B9

Customer service phone : 1-800-54-RESIN

Regulatory Information Contact : amer.regulatory.requests@schulman.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN707712
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US and GHS-Canada classification

Carcinogenicity, Category 2 Suspected of causing cancer.

2.2. Label elements

Encapsulated product.

GHS-US and GHS-Canada labelling

Signal word (GHS-US and GHS-Canada) : Warning

Hazard statements (GHS-US and GHS-Canada) : May form combustible dust concentrations in air

2.3. Other hazards

Other hazards not contributing to the classification : The components of this product are encapsulated and present no potential for exposure as shipped.
This product is not hazardous in the form in which it is shipped by the manufacturer.
The product is not expected to create any unusual hazards when handled and processed according to good manufacturing practices and the guidelines in this SDS.

2.4. Unknown acute toxicity (GHS-US and GHS-Canada)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Table with 3 columns: Name, Product identifier, %



Full text of hazard classes and H-statements : see section 16

The specific chemical identity and/or exact percentage (concentration) of the composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical advice.
- First-aid measures after inhalation : Remove casualty to fresh air and keep warm and at rest.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Following contact with the melted product, quickly cool affected skin area with water. Do not attempt to remove congealed product from skin.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. If eye irritation persists, consult a specialist.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : Inhalation of dust may cause irritation of the respiratory system.
- Symptoms/effects after skin contact : The melted product can cause severe burns.
- Symptoms/effects after eye contact : If eye irritation persists: Get medical advice/attention.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry extinguishing powder. Foam. Carbon dioxide (CO2).

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Thermal decomposition can lead to the escape of irritating gases and vapours. Carbon dioxide (CO2). Carbon monoxide. Gas/vapours, toxic.
- Reactivity : None under normal conditions.

### 5.3. Advice for firefighters

No additional information available

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing. Avoid generation of dust. Provide adequate ventilation. High slip hazard because of leaking or spilled product.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Do not allow uncontrolled leakage of product into the environment.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Remove mechanically, placing in appropriate containers for disposal. Handle contaminated packaging in the same way as the product itself.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid generation of dust. Provide adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. When using do not eat, drink or smoke. Wash hands before breaks and at the end of work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage area : Keep container tightly closed and dry.



Special rules on packaging

: Keep/Store only in original container.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

<b>Carbon black (1333-86-4)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable fraction)
ACGIH	Remark (ACGIH)	Bronchitis
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
IDLH	US IDLH (mg/m <sup>3</sup> )	1750 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup> 0,1 mg/m <sup>3</sup> (Carbon black in presence of Polycyclic aromatic hydrocarbons)
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
Alberta	OEL TWA (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
British Columbia	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable)
British Columbia	Notations and remarks	(2B)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable fraction)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
New Foundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable fraction)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable fraction)
Nunavut	OEL STEL (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Nunavut	OEL TWA (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable)
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable fraction)
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
Yukon	OEL STEL (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Yukon	OEL TWA (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
<b>antimony trioxide (1309-64-4)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0,03 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	Pneumonitis; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Canada (Quebec)	Notations and remarks	(C3)





## 8.2. Exposure controls

Appropriate engineering controls	: If suction of the immediate vicinity is impossible or insufficient, the entire working place must be sufficiently ventilated using appropriate machines.
Hand protection	: Wear suitable gloves.
Eye protection	: Wear eye/face protection.
Skin and body protection	: Only wear fitting, comfortable and clean protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. particulates filter device (DIN EN 143).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granules.
Colour	: NAT - NATURAL
Odour	: Odourless.
Odour threshold	: No data available
pH	: not applicable
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Decomposes before boiling
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: not applicable
Flammability (solid, gas)	: No data available
Vapour pressure	: not applicable
Relative vapour density at 20 °C	: not applicable
Relative density	: No data available
Relative gas density	: not applicable
Solubility	: Water: insoluble
Log Pow	: not applicable
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: not applicable
Viscosity, kinematic	: not applicable
Viscosity, dynamic	: not applicable
Explosive limits	: No data available
Explosive properties	: not applicable.
Oxidising properties	: not applicable.

### 9.2. Other information

Minimum ignition energy	: not applicable
SADT	: not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**10.5. Incompatible materials**

Strong acid. strong alkalis. Oxidizing agents.

**10.6. Hazardous decomposition products**

In case of fire: Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Carbon black (1333-86-4)</b>	
LD50 oral rat	8000 mg/kg
ATE US (oral)	8000,000 mg/kg bodyweight

Skin corrosion/irritation : Not classified  
pH: not applicable

Serious eye damage/irritation : Not classified  
pH: not applicable

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

<b>Carbon black (1333-86-4)</b>	
Additional information	Tumors in the rat lung are considered to be related to the "lung overload" rather than to a specific chemical effect of carbon black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles and appear to be rat specific (ILSI, 2000). Tumors have not been observed in other species (i.e, mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

<b>antimony trioxide (1309-64-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/effects after skin contact : The melted product can cause severe burns.

Symptoms/effects after eye contact : If eye irritation persists: Get medical advice/attention.

Other information : Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the IARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.

**SECTION 12: Ecological information****12.1. Toxicity**



Carbon black (1333-86-4)	
LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	> 5600 mg/l
ErC50 (algae)	> 10000 mg/l

12.2. Persistence and degradability

13N2010NC	
Persistence and degradability	Experience so far shows this product to be inert and not degradable.

12.3. Bioaccumulative potential

13N2010NC	
Log Pow	not applicable
Bioaccumulative potential	No indication of bio-accumulation potential.

12.4. Mobility in soil

13N2010NC	
Mobility in soil	Mobility/evaluation:negative.

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.  
 GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Comply with local regulations for disposal.  
 Waste disposal recommendations : Do not empty into drains; dispose of this material and its container in a safe way. Handle contaminated packaging in the same way as the product itself.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT  
Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. US State regulations



California Proposition 65 - This product contains, or may contain, (a) substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

Carbon black	CAS No 1333-86-4	1 - 5%
antimony trioxide	CAS No 1309-64-4	5 - 10%
Lead	CAS No 7439-92-1	< 0,1%

### Carbon black (1333-86-4)

U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)  
 U.S. - Illinois - Toxic Air Contaminant Carcinogens  
 U.S. - Illinois - Toxic Air Contaminants  
 U.S. - Massachusetts - Right To Know List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - New Jersey - Special Health Hazards Substances List  
 U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
 U.S. - Pennsylvania - RTK (Right to Know) List

### antimony trioxide (1309-64-4)

U.S. - California - SCAQMD - Toxic Air Contaminants With Proposed Risk Values  
 U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)  
 U.S. - Illinois - Toxic Air Contaminant Carcinogens  
 U.S. - Illinois - Toxic Air Contaminants  
 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
 U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Massachusetts - Toxics Use Reduction Act  
 U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - New Jersey - Special Health Hazards Substances List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### 15.3. Canadian Federal regulations

All chemical substances in this product are listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL) inventory.

## SECTION 16: Other information

Revision date : 05/02/2017

Version : 2.1

Abbreviations and acronyms:



REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SVHC	Substance of very high concern
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("MARPOL" is short for marine pollution and 73/78 short for the years 1973 and 1978.)
IBC	The International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
OSHA	Occupational Safety & Health Administration
TWA	Time Weighted Average
STEL	Occupational Exposure Limits - Short Term Exposure Limits (STELs)
ACGIH	American Conference of Government Industrial Hygienists
TLV	Threshold Limit Value
IARC	International Agency for Research on Cancer

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