

# SAFETY DATA SHEETS

## SPAL PRO RSF PART B

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

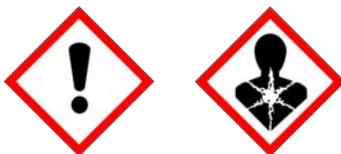
PRODUCT NAME: Spal Pro RSF Part B  
MANUFACTURER: Incredible Products LLC. ADDRESS: 1101 Lincoln Ave, Wapakoneta, OH 45895  
INFORMATION PHONE: 567-297-3700 EMERGENCY PHONE: 800-424-9300

### SECTION 2: HAZARDOUS IDENTIFICATION

Classification:

Skin Irritation - Category 2  
Eye Irritation - Category 2  
Respiratory Sensitizer (Solid/Liquid) - Category 1  
Skin Sensitizer - Category 1  
Acute Toxicity (Inhalation)- Category 4  
Target Organ Toxicity (Single exposure)- Category 3  
Target Organ Toxicity (Repeated exposure)- Category 2

Pictograms:



Signal Word:

Danger

Hazardous Statements - Health:

H319 - May cause eye irritation  
H315 - May cause skin irritation  
H317 - May cause an allergic skin reaction  
H335 - May be harmful if inhaled  
H334 - May cause allergy or asthma symptoms of breathing difficulties if inhaled  
H332 - Harmful if inhaled  
H373 - May cause damage to respiratory system through prolonged or repeated exposure.

Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.

Precautionary Statements - Prevention:

P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P284 - <In case of inadequate ventilation> wear respiratory protection.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.

Precautionary Statements - Response:

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 - If eye irritation persists: Get medical advice/attention.  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention.  
P321 - Specific treatment (see section 4 on this SDS).  
P362 + P364 - Take off contaminated clothing. And wash it before reuse.  
P308 + P313 - IF exposed or concerned: Get medical advice/attention.

Precautionary Statements - Storage:

P405 - Store locked up.

Precautionary Statements - Disposal:

P501 - Dispose of contents/ container to an approved waste disposal plant.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	Wt.%
MDI Prepolymer	157905-72-1	50 - 60
Polymeric diphenylmethane diisocyanate	9016-87-9	10-16
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	13 - 15
Diphenylmethane diisocyanate mixed isomers	26447-40-5	6 - 10
4,4'-Diphenylmethane Diisocyanate	101-68-8	6-9

SECTION 2 NOTES: \*Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

## SECTION 4: FIRST AID MEASURES

### Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

### Skin Contact:

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use or discard.

IF exposed or concerned: Get medical advice/attention.

### Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Avoid direct contact. Wear chemical protective gloves, if necessary.

### Ingestion:

Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Give 1 or 2 glasses of milk or water to drink and refer person to medical personnel. Do not give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

## SECTION 5: FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

### Unsuitable Extinguishing Media:

If water is used, use very large quantities of cold water. The reaction between water and hot isocyanate may be vigorous.

Water and foam may cause violent frothing and possibly endanger the life of the fire fighter.

### Specific Hazards in Case of Fire:

Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may rupture them.

Excessive pressure or temperature may cause explosive rupture of containers.

Exposure to vapors of heated isocyanates can be extremely dangerous.

### Fire-fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Special Protective Actions:

Wear NIOSH approved self-contained breathing apparatus in positive pressure mode with full-face piece. Boots, gloves (neoprene), goggles, and full protective clothing are also required.

Care should always be exercised in dust/mist areas.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Emergency Procedure:

Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

### Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

### Personal Precautions:

Avoid breathing vapors. Avoid contact with skin, eyes or clothing.

Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

## SECTION 7: HANDLING AND STORAGE

### General:

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Employee education and training in safe handling of this material is required under OSHA hazard communication standard. Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed to isocyanates.

### Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits.

The use of local ventilation is recommended to control emissions near the source.

Air circulation and exhaustion of isocyanate vapors must be maintained until the coatings have fully cured to insure that no potential health hazard remains.

Exposure to vapors of heated isocyanates can be extremely dangerous.

### Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage.

Empty container retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

### Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

### Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

When airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied air respirator with a full-face piece or an air supplied hood. For emergencies, use a positive pressure self-container breathing apparatus.

Air purifying (cartridge type) respirators are not approved for protection against isocyanates.

### Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity: 1.09  
Boiling Point: N/A  
Evaporation Rate: N/A  
Vapor Density: Heavier than air.  
Solubility in H2O: Insoluble, reacts with water

## SECTION 10: STABILITY AND REACTIVITY

Stability:  
Stable.  
Conditions to Avoid:  
Temperatures above 300°F.  
Hazardous Reactions/Polymerization:  
Can be caused by elevated temperatures.  
Incompatible Materials:  
Amines, strong acids, strong bases, oxidizing agents and peroxides.  
Hazardous Decomposition Products:  
Carbon oxides, nitrogen oxides, isocyanates and trace amounts of hydrogen cyanide.

## SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENT	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
Polymeric diphenylmethane diisocyanate	> 10000 mg/kg	> 9400 mg/kg	310 mg/m3/4h
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	> 3200 mg/kg	> 18900 mg/kg	> 5.3 mg/L/6h
4,4'-Diphenylmethane diisocyanate	> 10000 mg/kg	> 9400 mg/kg	0.49 mg/L/4h (respirable aerosol)

CARCINOGENICITY  
IARC: Not regulated as a carcinogen.  
NTP: Not regulated as a carcinogen.  
OSHA: Not regulated as a carcinogen.  
SENSITIZATION: This material is a skin and respiratory sensitizer.

## SECTION 12: ECOLOGICAL INFORMATION

MDI: LC50 (Brachydanio rerio) >500 mg/L/24h; EC50 (Daphnia magna) 7060 mg/L/24h

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.  
Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.  
Return drums to reclamation centers for proper cleaning and reuse.

## SECTION 14: TRANSPORTATION INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)  
PROPER SHIPPING NAME: Not regulated when shipped below RQ.  
AIR (ICAO/IATA)  
SHIPPING NAME: Not regulated.  
VESSEL (IMO/IMDG)  
SHIPPING NAME: Not regulated.

## SECTION 15: REGULATORY INFORMATION

UNITED STATES  
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)  
311/312 HAZARD CATEGORIES: Acute, Chronic, Reactive.

### EPCRA SECTION 313 SUPPLIER NOTIFICATION

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>Wt. %</u>	<u>Comments</u>
Polymeric diphenylmethane diisocyanate	9016-87-9	10-16	Diisocyanates category
4,4'-Diphenylmethane Diisocyanate	101-68-8	6-9	Diisocyanates category

### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

<u>INGREDIENT</u>	<u>Wt. %</u>	<u>CERCLA RQ</u>
4,4'-Diphenylmethane Diisocyanate	6-9	5000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)  
TSCA REGULATORY: All components are in TSCA inventory.  
RCRA STATUS: If discarded in its purchased form, this material is not a RCRA hazardous waste

## SECTION 16: OTHER INFORMATION

### DISCLAIMER

The information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.