

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Shield DPA 15% Super Refined **EPA Reg #** 64864-3  
**Product Code:** 10036  
**Product Use:** For Reducing Apple Scald During Storage  
**Supplier:** Pace International, LLC  
**Address:** 5661 Branch Road, Wapato, WA 98951  
**Phone Number:** 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)  
**Medical Emergency Phone Number:** 888-271-4649 (PROSAR)  
**Transportation Emergency Phone Number:** 800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

**Classification:**  
 Physical, Flammable Category 3  
 Acute Inhalation, Category 5  
 Skin irritation, Category 2  
 Eye irritation, Category 2A  
 Specific Target Organ Toxicity (Single Exposure), Category 3  
 Specific Target Organ Toxicity (Repeated Exposure), Category 2  
 Acute Aquatic, Category 2

**Hazard Symbols:**



**Hazard Statements:**

WARNING  
 H226 Flammable liquid and vapour  
 H333 May be harmful if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure (nervous system, liver, kidneys, and bone marrow).  
 H401 Toxic to aquatic life.

**Precautionary Statements:**

**Prevention Statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P241 Use explosion-proof electrical / ventilating / lighting equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe mists / vapours / spray.  
 P261 Avoid breathing mist/vapours/ or spray.  
 P264 Wash hands thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear impermeable clothing, safety goggles or face shield and chemical resistant gloves.

**Response Statements:**

P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P370/378 In case of fire: Use dry chemical, foam, CO<sub>2</sub> to extinguish.  
 P304/312/340 IF INHALED: Call POISON CENTER / doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing.  
 P321 Specific treatment see Section 4 First Aid Measures.  
 P332/313 If skin irritation occurs: Get medical advice/attention.  
 P362/364 Take off contaminated clothing and wash it before reuse.  
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337/313 If eye irritation persists: Get medical advice/attention.  
 P390 Absorb spillage to prevent material damage.  
 P312 Call a POISON CENTER or doctor if you feel unwell.  
 P314 Get medical advice/attention if you feel unwell.

**Storage Statements:**

P403/235 Store in well-ventilated place. Keep cool  
 P233 Keep container tightly closed.  
 P405 Store locked up.

**Disposal Statements:**

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration (w/w %)
Diphenylamine	122-39-4	< 15 %
Isopropanol	67-63-0	< 21 %
Proprietary ingredients		Balance



#### 4. FIRST AID MEASURES

<b>General</b>	Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
<b>Advice:</b>	
<b>If on Skin:</b>	Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.
<b>If in Eyes:</b>	Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.
<b>If Swallowed:</b>	Call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>If Inhaled:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.

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#### 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	Flammable. Use dry chemical, foam, CO <sub>2</sub>
<b>Special Exposure Hazards:</b>	Combustion of diphenylamine may generate toxic oxides of nitrogen. Keep product away from strong oxidizers.
<b>Special Protective Equipment / Procedures for Firefighters:</b>	Wear self-contained breathing equipment.

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#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Wear impermeable clothing, safety goggles or face shield, and chemical resistant gloves.
<b>Environmental Precautions:</b>	In case of spill isolate area and deny entry to unnecessary personnel. Do not allow product to enter sewers, lakes, streams or other bodies of water.
<b>Containment / Clean-Up Methods:</b>	Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Then absorb with an inert material such as sand or vermiculite and place in an appropriate container for disposal.

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#### 7. HANDLING & STORAGE

<b>Handling:</b>	Avoid contact with skin and eyes. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear impermeable clothing, safety goggles or face shield and chemical resistant gloves.
<b>Storage:</b>	Do not use or store near heat or open flames. Store in a cool, dry area at room temperature, and away from direct sunlight. Keep away from strong oxidizers. Avoid storing below 40°F (4°C). Keep container tightly closed when not in use. Keep out of reach of children and livestock. Store in locked location.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limits:</b>	Diphenylamine CAS# 122-39-4 10 mg/m <sup>3</sup> ACGIH TLV Isopropanol CAS# 67-63-0 980 mg/m <sup>3</sup> 400 ppm OSHA PEL 400 ppm (ST) 500 ppm Cal/OSHA PEL, NIOSH REL 200 ppm (ST) 400 ppm ACGIH TLV
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**Engineering Controls:**

Local exhaust ventilation maybe necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces

**Personal Protective  
Equipment :**



**Clothing:** Wear impermeable clothing and chemical resistant gloves when handling.

**Eye Protection:** Chemical goggles or face shield recommended. Eye fountain and washing facilities should be present at work area.

**Respiratory Protection:** Not normally required. A NIOSH-approved respirator with organic vapor filter may be used in misty environments without proper ventilation.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Light amber	<b>Upper/Lower flammability limits:</b>	Not available
<b>Odor:</b>	Alcoholic	<b>Vapor pressure:</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Vapor density: (air =1)</b>	Not available
<b>pH:</b>	5.0 – 6.0	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	0.95
<b>Melting/Freezing point:</b>	Not available	<b>Solubility:</b>	Dispersible
<b>Boiling point:</b>	212°F (100°C)	<b>Partition coefficient (n-octanol-water):</b>	Not available
<b>Flash point:</b>	74°F (23°C) closed cup method	<b>Auto-ignition temperature:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Decomposition temperature:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable	<b>Viscosity:</b>	21.48mm <sup>2/s</sup> (cSt) @ 25°C

## 10. STABILITY & REACTIVITY

<b>Reactivity hazards:</b>	None known
<b>Chemical stability:</b>	Stable at ambient conditions
<b>Conditions to avoid:</b>	Heat and open flames.
<b>Incompatible materials:</b>	Strong oxidizers.
<b>Hazardous decomposition products:</b>	None known

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	<b>Acute Oral:</b>	LD <sub>50</sub> (estimate): > 5000 mg/kg	Based on Ingredients
	<b>Acute Dermal:</b>	LD <sub>50</sub> (estimate): > 5000 mg/kg	Based on Ingredients
	<b>Inhalation:</b>	LC <sub>50</sub> (estimate): > 24 mg/L	Based on Ingredients
<b>Skin corrosion/irritation:</b>	Causes skin irritation.		
<b>Eye damage/irritation:</b>	Causes serious eye irritation.		
<b>Respiratory/Skin sensitization:</b>	May cause respiratory irritation, may cause drowsiness or dizziness.		
<b>Germ cell mutagenicity:</b>	Not available		
<b>Carcinogenicity:</b>	No carcinogenic effects are expected due to product being comprised of FDA-approved food-grade ingredients.		
<b>Reproductive toxicity:</b>	Occasional workplace exposure is not expected to present a hazard.		
<b>Target organ effects:</b>	May cause damage to nervous system, liver, kidneys, and bone marrow.		
<b>Aspiration hazard:</b>	Material does not present an aspiration hazard.		
<b>Potential health effects:</b>	May cause redness and reversible irritation to eyes. Prolonged or repeated contact may cause skin irritation. Absorption through skin may cause nervous system, liver, kidney, and bone marrow damage.		



**12. ECOLOGICAL INFORMATION**

<b>Toxicity:</b>	LC <sub>50</sub> (96-hr) fish: > 3.5 mg/L (estimate) <b>Acute toxicity:</b> Northern bobwhite quail, LD <sub>50</sub> : > 2250 mg/kg Mallard duck, LC <sub>50</sub> (5-day): > 5205 ppm Rainbow trout, LC <sub>50</sub> (96h): 2.2 ppm Daphnia magna, LC <sub>50</sub> /EC <sub>50</sub> (48h): 1.2 ppm	Based on Ingredients <b>diphenylamine</b>
<b>Persistence/ degradability:</b>	Not available	
<b>Bioaccumulative potential:</b>	Not available	
<b>Mobility in soil:</b>	Not available	
<b>Other adverse effects:</b>	Toxic to aquatic life.	

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods:** Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.

**14. TRANSPORT INFORMATION**

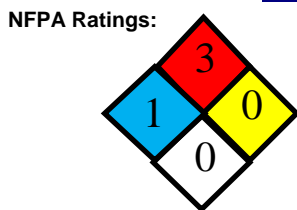
	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
<b>UN number:</b>	UN 1993	Not applicable	Not applicable
<b>Proper shipping name:</b>	Flammable Liquids, n.o.s. (Isopropanol)	Not regulated	Not regulated
<b>Hazard class(es):</b>	3	Not applicable	Not applicable
<b>Packing group:</b>	III	Not applicable	Not applicable
<b>Marine Pollutant:</b>	Not applicable		
<b>Special precautions:</b>	None		

**15. REGULATORY INFORMATION**

<b>Health Canada:</b>	Shield DPA 15% is registered under the Pest Control Product Act under registration number 18983.
<b>FIFRA:</b>	Shield DPA 15% is registered with the U.S. EPA under registration number 64864-3.
<b>SARA 313:</b>	Contains diphenylamine (CAS # 122-39-4), which is subject to SARA Title III Section 313 reporting requirements.
<b>TSCA:</b>	All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
<b>WHMIS:</b>	This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

**16. OTHER INFORMATION**

HMIS Ratings: Health – 1 Flammability – 3 Reactivity – 0



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responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC) to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

**SDS preparation date:** May 26, 2015  
**Changes since last revision:** New format to SDS

**Replaces MSDS dated:** December 12, 2012

