Material Safety Data Sheet

BASF CORPORATION
3000 CONTINENTAL DRIVE
MT. OLIVE, NJ 07828
(973) 426-4214

EMERGENCY TELEPHONE: (800) 424-9300 CHEMTREC
(800) 832-HELP (BASF Hotline)
BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

DIVERGAN® RS polymer
Product ID:       NCN 072971
Common Chemical Name:    Polyvinylpyrrolidone (crosslinked)
Synonyms:        PVPP;PVP
Molecular Formula:                  NOT AVAILABLE
Chemical Family:  Polymer
Molecular Wt.:    NOT APPLICABLE

SECTION 2 - INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyvinylpyrrolidone (crosslinked)</td>
<td>9003-39-8</td>
<td>~ 100.0 %</td>
</tr>
</tbody>
</table>

PEL/TLV NOT ESTABLISHED
Although ACGIH and OSHA have not established specific exposure limits for this material or some of its components, they have established limits for Particulates Not Otherwise Classified or Regulated:

OSHA PEL: 15 mg/m³ Total; 5 mg/m³ Respirable
ACGIH TLV: 10 mg/m³ Total; 3 mg/m³ Respirable

SECTION 3 - PHYSICAL PROPERTIES

Color: White
Form/Appearance: Amorphous Powder
Odor: Characteristic
Odor Intensity: Faint

Typical Low/High U.O.M. @ 20 DEG C

Specific Gravity: ~ 1.2
Bulk Density: ~ 0.2 G/CC
pH: 6 - 7.5 (1% AQ SOLN)

Boiling Pt: NOT AVAILABLE
Freezing Pt: NOT AVAILABLE
SECTION 3 - PHYSICAL PROPERTIES (cont)

<table>
<thead>
<tr>
<th>Typical</th>
<th>Low/High</th>
<th>Deg.</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decom. Tmp:</td>
<td>~ 220</td>
<td>C</td>
<td>1 ATMOSPHERES</td>
</tr>
<tr>
<td>Solubility in Water Description:</td>
<td>Insoluble</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4 - FIRE AND EXPLOSION DATA

<table>
<thead>
<tr>
<th>Typical</th>
<th>Low/High</th>
<th>Deg.</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point:</td>
<td>NOT AVAILABLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition:</td>
<td>~ 440</td>
<td>C</td>
<td>DIN 51794</td>
</tr>
<tr>
<td>Extinguishing Media:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use foam, CO2 or dry chemical extinguishing media.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Fighting Procedures:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Firefighters should be equipped with self-contained breathing apparatus and turn out gear.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unusual Hazards:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ensure adequate ventilation to minimize dusting.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The following can be given off in a fire: Nitrogen oxides (NOx), Carbon dioxide (CO2), Hydrogen Cyanide (HCN).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Toxicology Test Data:
- Rat, Oral LD50 - > 2 G/KG
  - Moderately Toxic
- Rabbit, Primary Skin Irritation - Nonirritating
- Rabbit, Eye Irritation - Nonirritating

Acute Overexposure Effects:
- Prolonged or repeated contact may cause skin or eye irritation.
- Inhalation may result in respiratory irritation. Ingestion may result in gastric disturbances.

Chronic Overexposure Effects:
- Intravenous administration of PVP caused changes of the spleen in dogs, rabbits, rats and mice; however, no toxic effects were seen in rats fed diets containing 1% or 10% PVP for two years. Liver effects have been reported in humans receiving intravenous doses of PVP and among humans inhaling hair spray containing PVP. Lung effects were also reported among those exposed to the hair spray.

First Aid Procedures - Skin:
- Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

First Aid Procedures - Eyes:
- Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention.
First Aid Procedures - Ingestion:
If swallowed, dilute with water and immediately induce vomiting.
Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:
Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:
None known.

First Aid Procedures - Aggravated Medical Conditions:
No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to the effects of overexposure section for effects (if any) observed in animals.

First Aid Procedures - Special Precautions:
None

SECTION 6 - REACTIVITY DATA

Stability Data:
Stable.

Incompatibility:
Strong alkali.

Conditions/Hazards to Avoid:
Avoid dust cloud formation.
Avoid moisture. Product is hygroscopic.

Hazardous Decomposition/Polymerization:
Hazardous decomposition products: None known.
Polymerization: Does not occur.

Corrosive Properties:
Not corrosive.

Oxidizer Properties:
Not an oxidizer

SECTION 7 - PERSONAL PROTECTION

Clothing:
Gloves, coveralls, apron, boots as necessary to minimize contact.

Eyes:
Chemical Goggles

Respiration:
If dusts are generated, wear an approved dust respirator.

Ventilation:
Use local exhaust to control dusts.

Explosion Proofing:
None required.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:
Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during
clean-up.

Waste Disposal:
Incinerate in a licensed facility. Do not discharge into waterways or sewer systems.

Container Disposal:
Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

Environmental Toxicity Test Data:
Fathead Minnow, Static 48 hr LC50 - >500 MG/L
Practically Nontoxic
Golden orfe, Static 48 hr LC50 - >10 G/L
(Data for a similar material)

SECTION 9 - STORAGE AND HANDLING

General:
Store at moderate temperatures, in tight containers.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status
Listed on Inventory: YES
This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:
N/A

DOT Technical Name:
N/A

DOT Primary Hazard Class:
N/A

DOT Secondary Hazard Class:
N/A

DOT Label Required:
N/A

DOT Placard Required:
N/A

DOT Poison Constituent:
N/A

BASF Commodity Codes: 453 453 UN/NA Code: E/R Guide: N/A

Bill of Lading Description:
NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION

*IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A
PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK".

END OF DATA SHEET