Safety Data Sheet

Section 1. Identification and of the company/undertaking

GHS product identifier : Vydyne 21 SPF
Chemical name : Polyamide solid
Other means of identification : Polymer
Product type : Solid

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

Identified uses
Plastics.

Manufacturer/Supplier : Premier Farnell plc
150 Armley Road
Leeds
LS12 2QQ
+44 (0) 870 129 8608

Emergency telephone number : +49 69 222 25285

Section 2. Hazards identification

OSHAIHCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product

Classification of the substance or mixture : Not classified

GHS label elements

Signal word : No signal word
Hazard statements : No known significant effects or critical hazards

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed,have product container or label at hand
Prevention : Not applicable
Response : Not applicable
Storage : Not applicable
Disposal : Not applicable
Hazards not otherwise classified : Heated material can cause thermal burns. Vapor may be irritating to eyes and respiratory system

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Chemical name : Polyamide solid
Other means of identification : Polymer

CAS number/other identifiers

CAS number : Not applicable
Product code : Resins

Ingredient name	%	CAS number
Poly[imino(1, 6-dioxo-1, 6-hexanediyl) imino-1, 6-hexanediyl]	99- 100	32131-17-2

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 or the environment and hence require reporting in this section
Occupational exposure limits, if available, are listed in Section 8

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. Get medical attention if irritation occurs
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur
Ingestion	: Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Heated material can cause thermal burns
Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure
Skin contact	: Heated material can cause thermal burns
Ingestion	: No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact	: No specific data
Inhalation	: No specific data
Skin contact	: No specific data
Ingestion	: No specific data

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

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours
Specific treatments	: No specific treatment
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire
Unsuitable extinguishing media	: None known
Specific hazards arising from the chemical	: No specific fire or explosion hazard
Hazardous thermal decomposition products	: Decomposition products may include the following materials: Carbon dioxide Carbon monoxide

	Nitrogen oxides Hydrogen cyanide Ammonia. Aldehyde
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
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
Remark	: No additional remark

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. Put on appropriate personal protective equipment
For emergency responders	: If specialized 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. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. 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)
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
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 1 0) and food and drink. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants
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 eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields

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
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
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
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

Physical state	: Solid. [Pellets]
Color	: Off-white
Odor	: Odorless
Odor threshold	: Not applicable
pH	: Not applicable
Melting point	: 257°C to 267°C (494.6°F to 512.6°F)
Boiling point	: Not available
Flash point	: Not applicable
Burning time	: Not available
Burning rate	: Not available
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not available

Lower and upper explosive (flammable) limits	: Not available
Vapor pressure	: Not available
Vapor density	: Not available
Relative density	: 1.1 g/cm³ to 1.2 g/cm³
Solubility	: Not available
Solubility in water	: Insoluble
Partition coefficient: noctanol/water	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: >300°C (>572°F)
SADT	: Not available
Viscosity	: Not available

Aerosol product

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients
Chemical stability	: The product is stable
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur
Conditions to avoid	: No specific data
Incompatible materials	: No specific data
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available

Irritation/Corrosion

Not available

Sensitization

Not available

Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive toxicity

Not available

Teratogenicity

Not available

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

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

Potential acute health effects

Eye contact : Heated material can cause thermal burns
Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure
Skin contact : Heated material can cause thermal burns
Ingestion : No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data
Inhalation : No specific data
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 : Heated material can cause thermal burns
Potential delayed effects : None known

Long term exposure

Potential immediate effects : None known
Potential delayed effects : None known

Potential chronic health effects

Not available

Conclusion/Summary : No known significant effects or critical hazards
General : No known significant effects or critical hazards
Carcinogenicity : No known significant effects or critical hazards
Mutagenicity : No known significant effects or critical hazards
Teratogenicity : No known significant effects or critical hazards
Developmental effects : No known significant effects or critical hazards
Fertility effects : No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates

Not available

Interactive effects : No known significant effects or critical hazards
Other information : Adverse symptoms include the following: None known
Adverse symptoms may include the following: None known
Adverse symptoms sometimes include the following: None known

Section 12. Ecological information

Toxicity

Not available

Conclusion/Summary : Not toxic

Persistence and degradability
Not available
Bioaccumulative potential
Not available
Mobility in soil
Soil/water partition coefficient (Koc): Not available
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. 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	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental Hazards	No	No	No	No	No	No
Additional Information	-	-	-	-	-	-

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

Transport in bulk according to Annex II of MARPOL and the IBC Code
Proper shipping name : Not regulated

Section 15. Regulatory information

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 : Not applicable

Composition/information on ingredients

No products were found

State regulations

Massachusetts : None of the components are listed
New York : None of the components are listed
New Jersey : None of the components are listed
Pennsylvania : None of the components are listed
Canada inventory : All components are listed or exempted

International regulations

International lists : **Australia inventory (AICS):** All components are listed or exempted
China inventory (IECSC): All components are listed or exempted
Japan inventory: All components are listed or exempted
Korea inventory: All components are listed or exempted
New Zealand Inventory of Chemicals (NZioC): All components are listed or exempted
Philippines inventory (PICCS): All components are listed or exempted

Chemical Weapons Convention List Schedule I Chemicals : Not listed
Chemical Weapons Convention List Schedule II Chemicals : Not listed
Chemical Weapons Convention List Schedule III Chemicals : Not listedy

Section 16. Other information

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

Health	1
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

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

Key to abbreviations : 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
Log Pow= logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. (“Marpol” = marine pollution)
UN = United Nations

References : No additional information

Part Number
PP002061