SAFETY DATA SHEET



Vydyne 21SPF Black

In accordance with the Standard for Classification and Labeling of Chemical Substance and Material Safety Data Sheet, Article 10 Paragraph 1

Section 1. Chemical product and company identification

A. Product name

: Vydyne 21SPF Black

B. <u>Relevant identified uses of the substance or mixture and uses advised against</u>

Identified uses	
Plastics.	

C.	Manufacturer	Ascend Performance Materials Operations LLC 1010 Travis Street, Suite 900 Houston, TX 77002 USA +1-713-315-5700
	Emergency telephone number (with hours of operation)	CHEMTREC 00-308-13-2549 +1 703-527-3887

Section 2. Hazards identification

A. Hazard classification : Not classified.

В.	GHS label elements, inclu	di	ng precautionary statements
	Signal word	:	No signal word.
	Hazard statements	1	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	1	Not applicable.
	Response	1	Not applicable.
	Storage	1	Not applicable.
	Disposal	1	Not applicable.
C.	Other hazards which do not result in classification	:	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	: Polymer
identification	

CAS number/other identifie	<u>ers</u>				
CAS number	:	Not applicable.			
EC number	:	Mixture.			
Product code	:	Resins.			
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Section 3. Composition/information on ingredients

Ingredient name	Common name	CAS number	%
Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1, 6-hexanediyl]	Nylon 6,6	32131-17-2	98 - 100
	Carbon Black	1333-86-4	0.1 - 0.5

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

Α.	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.
В.	Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
C.	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.
D.	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.
Е.	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

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	:	None known.
В.	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

Section 5. Fire-fighting measures

C.	Special protective equipment for fire- fighters	:	re-fighters should wear appropriate protective equipment and self-contained reathing apparatus (SCBA) with a full face-piece operated in positive pressure ode.	
	Special precautions 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.	
	Remark	:	No additional remark.	

Section 6. Accidental release measures

Α.	Personal precautions, protective equipment and emergency procedures	:	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.				
В.	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).				
C.	C. <u>Methods and materials for containment and cleaning up</u>						
	Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled 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, labeled 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

Α.	Precautions for safe hand	llir	<u>n</u>
	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.
В.	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 10) 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

A. <u>Control parameters</u>

Occupational exposure limits None.

B. Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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Section 8. Exposure controls/personal protection

	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.
С.	Personal protective equi	pm	ent
	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.
	Eye 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.
	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.
	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.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Solid.
Color	:	Black.
Odor	:	Odorless.
Odor threshold	1	Not applicable
рН	:	Not applicable.
Melting/freezing point	:	257 to 267°C (494.6 to 512.6°F)
Boiling point/boiling range	:	Not available.
Flash point	1	Not available.
Evaporation rate	:	Not applicable.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Solubility	:	Not available.
Solubility in water	:	Insoluble
Vapor density	:	Not available.
Relative density	:	1.1 to 1.2 g/cm ³
Partition coefficient: n- octanol/water	;	Not available.
	Physical state Color Odor Odor threshold pH Melting/freezing point Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapor pressure Solubility Solubility in water Vapor density Relative density Partition coefficient: n-	Physical state:Color:Odor:Odor threshold:pH:Melting/freezing point:Boiling point/boiling:range:Flash point:Evaporation rate:Flammability (solid, gas):Lower and upper explosive (flammable) limits:Vapor pressure:Solubility:Solubility in water:Vapor density:Relative density:Partition coefficient: n-:

Date of issue/Date of revision

Section 9. Physical and chemical properties

Ρ.	Auto-ignition temperature	:	Not available.
Q.	Decomposition temperature	-	Not available.
R.	Viscosity	:	No results available.
S .	Molecular weight	:	Not applicable.

Section 10. Stability and reactivity

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur. B. Conditions to avoid : No specific data. C. Incompatible materials : No specific data. D. Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products			_	
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur. B. Conditions to avoid : No specific data.	D.		:	
Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur. reactions	C	Incompatible materials	:	No specific data.
Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.	В.	Conditions to avoid	:	No specific data.
A. Chemical stability : The product is stable.	Α.	Possibility of hazardous		•

Section 11. Toxicological information

A. Information routes of ex		:	Routes of entry anticipated: Dermal, Eyes,
Potential ac	ute health effe	ect	<u>s</u>
Inhalation		:	No known significant effects or critical hazards.
Ingestion		:	No known significant effects or critical hazards.
Skin conta	ct 🛛	:	No known significant effects or critical hazards.
Eye contac	t	:	No known significant effects or critical hazards.
<u>Over-exposi</u>	<u>ire signs/sym</u>	pt	<u>oms</u>
Inhalation		:	No specific data.
Ingestion		:	No specific data.
Skin conta	ct	:	No specific data.
Eye contac	t	:	No specific data.
 B. Health hazar Acute toxicit Not availabl Irritation/Co Not availabl Sensitization Not availabl Mutagenicity Not availabl Carcinogeni Not availabl 	x e. r <u>rosion</u> e. 1 e. 2 city		

Not available.

Date of issue/Date of revision

Section 11. Toxicological information

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Reproductive toxicity Not available.				
<u>Teratogenicity</u> Not available.				
Specific target organ tox Not available.	<u>city (single exposure)</u>			
Specific target organ tox Not available.	<u>city (repeated exposure)</u>			
Aspiration hazard Not available.				
Potential chronic health effects Chronic toxicity 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.			

Other information

: No additional information.

ATE value

Not available.

Section 12. Ecological information

A. Ecotoxicity

Not available.

B. <u>Persistence and degradability</u> Not available.

C. Bioaccumulative potential

Not available.

- D. <u>Mobility in soil</u> Soil/water partition : Not available. coefficient (K_{oc})
- E. Other adverse effects : No known significant effects or critical hazards.

Date of issue/Date of revision . This 2015. Date of previous issue	Date of issue/Date of revision	: 11/9/2015.	Date of previous issue
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6/9

Section 13. Disposal considerations

Α.	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.

В.	Disposal precautions	: 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

	UN	IMDG	ΙΑΤΑ
A. UN number	Not regulated.	Not regulated.	Not regulated.
B. UN proper shipping name	-	-	-
C. Transport hazard class(es)	-	-	-
D. Packing group	-	-	-
E. Environmental hazards	No.	No.	No.
F. 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.

Section 15. Regulatory information

A. Regulation according to ISHA **ISHA Article 37** : None of the components are listed. **ISHA Article 38** : None of the components are listed. **Article 2 of Youth** : Not applicable. **Protection Act on Substances Hazardous** to Youth **Exposure Limits of Chemical Substances and Physical Factors** None of the components have an OEL. **Exposure Standards** : None of the components are listed. established for Harmful **Factors**

Date of issue/Date of revision

Section 15. Regulatory information

	control regult		
	Harmful Factors Subject to Work Environment Measurement	:	None of the components are listed.
	Harmful Factors Subject to Special Health Check- up	:	None of the components are listed.
	Hazardous Substances Subject to Control	1	None of the components are listed.
В.	Regulation according to	۲C	<u>CA</u>
	TCCA Toxic chemicals	1	Not applicable
	TCCA Observational chemicals	1	None of the components are listed.
	TCCA Article 32 (Banned)	1	None of the components are listed.
	TCCA Article 32 (Restricted)	:	None of the components are listed.
	TCCA Article 17 (TRI)	:	None of the components are listed.
	Korea inventory	1	All components are listed or exempted.
	Accident Precaution chemicals	:	None of the components are listed.
С.	Dangerous Materials Safety Management Act	:	Not available.
D.	Wastes regulation	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to o	oth	er foreign laws
	Europe inventory	1	Not determined.
	United States inventory (TSCA 8b)	1	All components are listed or exempted.
	Japan inventory	1	All components are listed or exempted.
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

A. References	: No additional information.
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Prepared by	: Ascend Product Stewardship Group

D. Other

✓ Indicates information that has changed from previously issued version.

Section 16. Other information

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
	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
	ON - Onited Nations
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