

KRPA ENVELOPE, a.s.
Nadrazni 266

CZ – 543 71 HOSTINNE

FC/Ha

2009-04-28

Dear Mrs. Marketa Sladkova,

herewith we confirm, that our recycling offset paper / envelope paper ISO 76-78% is made of ca. 95% waste paper and does not includes hazardous materials.

Best regards
Schönfelder Papierfabrik GmbH

Felix Cordier

Schönfelder Papierfabrik GmbH

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Amtsgericht Chemnitz • HRB 12479
USt-IdNr.: DE 178450339 • Allg.St.-Nr.: 217/119/00303

Sachsen LB

BLZ 860 500 00 • Konto-Nummer 1160

Commerzbank AG

BLZ 870 400 00 • Konto-Nummer 4 000 063

Swift COBADEFF870

Sparkasse Erzgebirge

BLZ 870 540 00 • Konto-Nummer 3 314 000 269

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:**
EURO-MAIL
PMS 428 U - Grey conc.
- **Article number:** WXA6097
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
The product is intended for professional use.
Printing inks
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Doneck Euroflex S.A.
4, an de Längten
6776 Grevenmacher
LUXEMBOURG
- **Further information obtainable from:**
Department: Technical & Safety Service
safety@doneck.com
- **1.4 Emergency telephone number:** +352 / 710 810 - 7000 (available during office hours)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**
Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol, CIT/MIT (3:1, CAS no 55965-84-9). May produce an allergic reaction.
Safety data sheet available on request.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 56-81-5	glycerol	substance with a Community workplace exposure limit	0.1-≤2.5%
EINECS: 200-289-5			

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2016

Version number 1

Revision: 20.01.2016

Trade name: PMS 428 U - Grey conc.

(Contd. of page 1)

- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Irritant gases/vapours.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Use only in well ventilated areas.
- **Information about fire - and explosion protection:** Protect from heat.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Further information about storage conditions:**
Protect from frost.
Store receptacle in a well ventilated area.
- **Storage class:** 12

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2016

Version number 1

Revision: 20.01.2016

Trade name: PMS 428 U - Grey conc.

(Contd. of page 2)

· **7.3 Specific end use(s)** Printing inks

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**
56-81-5 glycerol

WEL (Great Britain) Long-term value: 10 mg/m³

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· **Respiratory protection:** Not necessary if room is well-ventilated.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**
Form:

Liquid

Colour:

Grey

· **Odour:**

Nearly odourless

· **Odour threshold:**

Not determined.

· **pH-value:**

8 - 9 (20 °C)

· **Change in condition**
Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

Undetermined.

· **Flash point:**

Not applicable.

· **Flammability (solid, gaseous):**

Not applicable.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2016

Version number 1

Revision: 20.01.2016

Trade name: PMS 428 U - Grey conc.

(Contd. of page 3)

· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	< 20 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	1 - 2,5 %
Water:	40 - 60 %
VOC (EC)	< 1 %
· Solids content:	40 - 60 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Irritant gases/vapours.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2016

Version number 1

Revision: 20.01.2016

Trade name: PMS 428 U - Grey conc.

(Contd. of page 4)

- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
Non contaminated packagings may be reused.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|-----------------|
| • 14.1 UN-Number | |
| • ADR, ADN, IMDG, IATA | Void |
| • 14.2 UN proper shipping name | |
| • ADR, ADN, IMDG, IATA | Void |
| • 14.3 Transport hazard class(es) | |
| • ADR, ADN, IMDG, IATA | |
| • Class | Void |
| • 14.4 Packing group | |
| • ADR, IMDG, IATA | Void |
| • 14.5 Environmental hazards: | Not applicable. |
| • 14.6 Special precautions for user | Not applicable. |
| • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2016

Version number 1

Revision: 20.01.2016

Trade name: PMS 428 U - Grey conc.

(Contd. of page 5)

· **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Technical & Safety Service

· **Contact:** safety@doneck.com

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

EUKALIN

Trade name : EUKALIN 2816 ESG
Revision date : 19.05.2015
Print date : 23.02.2016

Version (Revision) : 2.0.1 (2.0.0)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

EUKALIN 2816 ESG

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

Relevant identified uses

Product Categories [PC]

PC1 - Adhesives, sealants

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

EUKALIN
Spezial-Klebstoff Fabrik GmbH

Street : Ernst-Abbe-Str. 10

Postal code/city : 52249 Eschweiler

Telephone : +49 2403 64500

Telefax : +49 2403 645026

1.4 Emergency telephone number

+49 2403 645025

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

None

Classification according to Directive 67/548/EEC or 1999/45/EC

None

2.2 Label elements

None

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

None

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. Put victim at rest, cover with a blanket and keep warm. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

EUKALIN

Trade name : EUKALIN 2816 ESG
Revision date : 19.05.2015
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Version (Revision) : 2.0.1 (2.0.0)

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. P338 - Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Put victim at rest, cover with a blanket and keep warm. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

When in doubt or if symptoms are observed, get medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂) ABC-powder Water

Unsuitable extinguishing media

None

5.2 Special hazards arising from the substance or mixture

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

5.3 Advice for firefighters

Move undamaged containers from immediate hazard area if it can be done safely. Do not allow run-off from fire-fighting to enter drains or water courses.

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe gas/fumes/vapour/spray. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clean with detergents. Avoid solvent cleaners. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8). Never use pressure to empty container. Keep/Store only in original container. Observe in addition any national regulations!

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels Keep container tightly closed. Never use pressure to empty container. The floor should be leak tight, jointless and not absorbent. Keep/Store only in original container. Hints on joint storage Do

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

EUKALIN

Trade name : EUKALIN 2816 ESG
Revision date : 19.05.2015
Print date : 23.02.2016

Version (Revision) : 2.0.1 (2.0.0)

not store together with Oxidising agent Strong acid Strong alkali

Hints on joint storage

Storage class : 12

Storage class (TRGS 510) : 12

Further information on storage conditions

Take care for the labels and safety data sheets of the chemicals to be used. Keep container tightly closed. Protect against UV-radiation/sunlight Protect against Frost

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limit - RCP-method TRGS 900 (D) Does not contain substances above concentration limits fixing an occupational exposure limit.

Occupational exposure limit values

AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 20 ppm / 14 mg/m³

Peak limitation : 2(I)

Remark : Y

Version : 02.04.2014

Limit value type (country of origin) : STEL (EC)

Limit value : 50 ppm / 36 mg/m³

Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)

Limit value : 20 ppm / 14 mg/m³

Version : 08.06.2000

8.2 Exposure controls

Ventilate affected area.

Personal protection equipment



General health and safety measures

Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work.

Occupational exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Initial boiling point and boiling range :	(1013 hPa)	No data available
Flash point :		none
Vapour pressure :	(50 °C)	not applicable
Density :	(20 °C)	ca. 1 g/cm ³
Solvent separation test :	(20 °C)	not applicable
pH :		8 - 10,5

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

EUKALIN

Trade name : EUKALIN 2816 ESG
Revision date : 19.05.2015
Print date : 23.02.2016

Version (Revision) : 2.0.1 (2.0.0)

Viscosity : (20 °C) ca. 2000 mPa.s

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None

10.2 Chemical stability

None

10.3 Possibility of hazardous reactions

Exothermic reaction with: Strong acid Strong alkali

10.4 Conditions to avoid

See section 7. No additional measures necessary.

10.5 Incompatible materials

50 - Do not mix with other chemicals.

10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO₂) Carbon monoxide. Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological data are not available.

SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not allow to enter into surface water or drains. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Waste codes/waste designations according to EWC/AVV

Waste code product

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

EUKALIN

Trade name : EUKALIN 2816 ESG
Revision date : 19.05.2015
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Version (Revision) : 2.0.1 (2.0.0)

List of proposed waste codes/waste designations in accordance with EWC waste code: 080410 adhesive or sealing whitout product with No. 080409

Other disposal recommendations

Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Weight fraction (Number 5.2.4. III) : < 1 %

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Relevant R-, H- and EUH-phrases (Number and full text)

None

16.5 Training advice

None

16.6 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

EUKALIN

Trade name : EUKALIN 2816 ESG
Revision date : 19.05.2015
Print date : 23.02.2016

Version (Revision) : 2.0.1 (2.0.0)

sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



MULTI-PLASTICS EXTRUSIONS, INC.

Material Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM

ID: 1388

*** Section 1 - Chemical Product and Company Identification ***

Chemical Formula: Styrene Resin Blend
Product Use: Food and Non Food Related packaging
Other Designations: OPS

MULTI PLASTICS, INC.
7770 N Central Drive
Lewis Center, OH 43035

Phone: 740-548-4894
Fax: 740-548-5177

Manufacturer/Supplier
Multi-Plastics Extrusion
600 Dietrich Ave.
Hazleton, Pa. 18201

Emergency Information:

USA: Chemtrec: 1-800-424-9300 or 1-703-527-3887

*** Section 2 - Composition / Information on Ingredients ***

Complete composition is provided below and may include some components classified as non-hazardous.

CAS #	Component	Percent
9003-53-6	Polystyrene	40-98
9003-55-8	Styrene-butadiene copolymer	0-60
8042-47-5	White mineral oil	0-3
	Colorants	0-5
1308-38-9	Chromium (III) oxide	0-1.6
Proprietary	Proprietary colorants	<1
Proprietary	Proprietary topical coating	<1

*** Section 3 - Hazards Identification ***

EMERGENCY OVERVIEW

Solid, flexible plastic. Clear or various colors. Plastic odor. Dust clouds generated during processing may be explosive. Material burns vigorously and releases a dense, black smoke.

Dust and fume from processing can cause irritation of eyes, skin, and upper respiratory tract. Contact with molten material can cause thermal burns.

POTENTIAL HEALTH EFFECTS

If dusts or fumes are generated by processing or if polymer is heated to melting:

Eyes

Can cause irritation

Skin

Can cause irritation. Contact with molten material can cause thermal burns.

Inhalation

Can cause irritation of upper respiratory tract.

Material Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM

ID: 1388

Health Effects of Ingredients

As supplied, the colorants in this material are bound into the polymeric matrix and will not be released through skin contact or under anticipated conditions of use. However, if the material is processed in such a manner (i.e., grinding) that large quantities of fine dusts are generated or the material is burned, a potential for exposure to dust containing the colorants may be created.

Chromium (III) compounds Can cause irritation of eyes, skin and respiratory tract. IARC/NTP: Not classifiable as to their carcinogenicity to humans by IARC.

Medical Conditions Aggravated By Exposure to the Product and/or Components

Dust from processing: Asthma, chronic lung disease, and skin rashes.

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Dust from processing: Flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

First Aid: Skin

Dust from processing: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists. Molten polymer: If molten material gets on skin, cool rapidly with cold water. Do not attempt to peel material from skin. Get medical treatment for thermal burns.

First Aid: Inhalation

Dust from processing: Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of pulse. Perform CPR if there is no pulse or respiration. Consult a physician.

*** Section 5 - Fire Fighting Measures ***

Flammable/Combustible Properties

Material burns vigorously and releases a dense, black smoke.

Fire/Explosion

Dust or fines dispersed in the air can be explosive.

Extinguishing Media

Use dry chemical, water spray (fog), foam or carbon dioxide extinguishing agents. Manual fire fighting may be difficult due to the presence of thick smoke.

Fire Fighting Equipment/Instructions

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

*** Section 6 - Accidental Release Measures ***

Small/Large Spill

Use dry cleaning procedures. Recover using mechanical means.

*** Section 7 - Handling and Storage ***

Handling/Storage

Good housekeeping practices should be employed. Avoid generating dust.

*** Section 8 - Exposure Controls / Personal Protection ***

Engineering Controls

If dust is generated through processing: Use with adequate ventilation to meet the limits listed in Section 8, Exposure Guidelines.

Material Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM

ID: 1388

Personal Protective Equipment

Respiratory Protection

If dust is generated through processing: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional. Suggested respiratory protection: N95

Eye Protection

Wear safety glasses/goggles to avoid eye injury.

Skin Protection

Wear appropriate gloves to avoid any skin injury.

Exposure Guidelines

A: General Product Information

The ACGIH and OSHA have not developed exposure limits for this product.

B: Component Exposure Limits

ACGIH and OSHA have not developed exposure limits for any of this product's components.

*** Section 9 - Physical & Chemical Properties ***

Physical State: Solid
Boiling Point: Not applicable
Vapor Pressure: Not applicable
Solubility in Water: Insoluble
Density: Not determined
Odor: Plastic odor

Appearance: Clear or colored plastic
Melting Point: Not determined
Vapor Density: Not applicable
Specific Gravity: Not determined
pH Level: Not applicable
Odor Threshold: Not determined

Octanol-Water Coefficient: Not applicable

*** Section 10 - Chemical Stability & Reactivity Information ***

Stability

Stable under normal conditions of use, storage, and transportation.

Conditions to Avoid

Strong oxidizers, and aromatic and chlorinated hydrocarbons.

Hazardous Decomposition

Carbon monoxide, carbon dioxide, aldehydes and other partially oxidized hydrocarbons.

Hazardous Polymerization: Will not occur.

*** Section 11 - Toxicological Information ***

Health Effects of Ingredients

A: General Product Information: No information available for product. **B:**

Component Analysis - LD50/LC50

White mineral oil (8042-47-5)

Oral LD50 Rat: >5000 mg/kg

Carcinogenicity

A: General Product Information

None of the components of this product are listed as carcinogenic by IARC, NTP or OSHA. References to studies are listed below.

B: Component Carcinogenicity Classifications and References

Polystyrene (9003-53-6)

IARC Supplement 7, 1987; Monograph 19, 1979

Styrene-butadiene copolymer (9003-55-8)

IARC Supplement 7, 1987; Monograph 19, 1979

Chromium (III) oxide (1308-38-9)

IARC Monograph 49, 1990; Supplement 7, 1987; Monograph 23, 1980; Monograph 2, 1973

Material Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM

ID: 1388

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information: No information available for product. B:

Component Analysis - Ecotoxicity - Aquatic Toxicity

White mineral oil (8042-47-5) 96 Hr LC50 Lepomis macrochirus: >10000 mg/L

Environmental Fate: No information available for product.

*** Section 13 - Disposal Considerations ***

Disposal Instructions

Reuse or recycle material whenever possible. Material may be disposed of at a sanitary landfill.

US EPA Waste Number & Descriptions

A: General Product Information

Not federally regulated in the U.S. if disposed of "as is." Otherwise, characterize in accordance with applicable regulations (40 CFR 261 or state equivalent in the U.S.)

B: Component Waste Numbers

RCRA waste codes other than described under Section A may apply depending on use of product. Refer to 40 CFR 261 or state equivalent in the U.S.

*** Section 14 - Transportation Information ***

Special Transportation

	PSN #1	PSN #2	PSN #3	PSN #4
Notes:	(1)			
Proper Shipping Name:	Not regulated			
Hazard Class:	-			
UN NA Number:	-			
Packing Group:	-			
RQ:	-			
Other - Tech Name:	-			
Other - Marine Pollutant:	-			

Notes:

- (1) When "Not regulated", enter the proper freight classification, "MSDS Number", and "Product Name" on the shipping paperwork.

Canadian TDG Hazard Class & PIN: Not regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

B: Component Analysis

None of the components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 311/312 Physical and Health Hazard Categories:

Immediate (acute) Health Hazard: No
Delayed (chronic) Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure: No
Reactive: No

Material Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM

ID: 1388

State Regulations

A: General Product Information

No information available for product.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Polystyrene	9003-53-6	No	No	No	No	Yes	No
Chromium (III) oxide	1308-38-9	No	No	Yes	No	Yes	No

Other Regulations

A: General Product Information

No information available for product.

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Polystyrene	9003-53-6	Yes	Yes	No	Yes	Yes
Styrene-butadiene copolymer	9003-55-8	Yes	Yes	No	Yes	Yes
White mineral oil	8042-47-5	Yes	Yes	Yes	Yes	No
Chromium (III) oxide	1308-38-9	Yes	Yes	Yes	Yes	Yes

*** Section 16 - Other Information ***

MSDS History

Original: March 15, 2008

Revised:

Supersedes:

MSDS Status - Original Issue by Multi Plastics, Inc. Prepared By

Hazardous Materials Control Committee

David Broocke: 804-281-2520

Other Information

* Guide to Occupational Exposure Values-2006, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).

* Documentation of the Threshold Limit Values and Biological Exposure Indices, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH).

* NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, February 2004. * Patty's Industrial Hygiene and Toxicology: Volume II: Toxicology, 4th ed., 1994, Patty, F. A.; edited by Clayton, G. D. and Clayton, F. E.: New York: John Wiley & Sons, Inc.

* expub, www.expub.com, Expert Publishing, LLC.

Material Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM

ID: 1388

Key-Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPR	Cardio-pulmonary Resuscitation
DOT	Department of Transportation
DSL	Domestic Substances List (Canada)
EC	Effective Concentration
ED	Effective Dose
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	Environmental Protection Act
IARC	International Agency for Research on Cancer
LC ₅₀	Lethal concentration (50 percent kill)
LC _{Lo}	Lowest published lethal concentration
LD ₅₀	Lethal dose (50 percent kill)
LD _{Lo}	Lowest published lethal dose
LFL	Lower Flammable Limit
MITI	Ministry of International Trade & Industry
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PIN	Product Identification Number
PSN	Proper Shipping Name
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TCLP	Toxic Chemicals Leachate Program
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
UFL	Upper Flammable Limit
WHMIS	Workplace Hazardous Materials Information System
atm	atmosphere
cm	centimeter
g, gm	gram
in	inch
kg	kilogram
lb	pound
m	meter
mg	milligram
ml, ML	milliliter
mm	millimeter
mppcf	million particles per cubic foot
n.o.s.	not otherwise specified
ppb	parts per billion
ppm	parts per million
psia	pounds per square inch absolute
u	micron
ug	microgram

INFORMATION HEREIN IS GIVEN IN GOOD FAITH AS AUTHORITATIVE AND VALID; HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

This is the end of MSDS # 1388