

## SAFETY DATA SHEET

**JC648BK BLACK**

Version Number 1.7  
Revision Date 10/08/2015

Page 1 of 15  
Print Date 11/24/2015

# SAFETY DATA SHEET

## JC648BK BLACK

### Section 1. Identification

**GHS product identifier** : JC648BK BLACK  
**Chemical name** : Mixture  
**CAS number** : Mixture  
**Other means of identification** : WJC648BK2000  
**Product type** : solid

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

**Product use** : Industrial applications. Plastics.

**Supplier's details** : **POLYONE CORPORATION**  
 33587 Walker Road, Avon Lake, OH 44012  
  
 1 (440) 930-1000 or 1 (866) POLYONE

**Emergency telephone number (with hours of operation)** : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

### Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. All ingredients are bound in a PVC polymer matrix and potential for hazardous exposure as shipped is minimal. PVC resin is manufactured from Vinyl Chloride Monomer (VCM). PVC resin manufacturers take special efforts to strip residual VCM from their resins. Residual VCM in the resin is typically below 8.5 ppm. However, VCM is a known carcinogen. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

**OSHA/HCS 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.

## SAFETY DATA SHEET

### JC648BK BLACK

Version Number 1.7  
Revision Date 10/08/2015

Page 2 of 15  
Print Date 11/24/2015

#### GHS label elements

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

#### Precautionary statements

**General** : Not applicable.  
**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.  
**Supplemental label elements** : None known.  
**Hazards not otherwise classified** : None known.

### Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Chemical name** : Mixture  
**Other means of identification** : WJC648BK2000

#### CAS number/other identifiers

Ingredient name	%	CAS number
Antimony trioxide	0.1 - 1	1309-64-4
Carbon black	0.1 - 1	1333-86-4

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

**SAFETY DATA SHEET****JC648BK BLACK**

Version Number 1.7  
Revision Date 10/08/2015

Page 3 of 15  
Print Date 11/24/2015

**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.
- 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** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- 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** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- 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**

## SAFETY DATA SHEET

### JC648BK BLACK

Version Number 1.7  
Revision Date 10/08/2015

Page 4 of 15  
Print Date 11/24/2015

#### Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.  
**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

- Hazardous thermal decomposition products** : May emit Hydrogen Chloride (HCl).  
Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
metal oxide/oxides

**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.

## 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 specialised 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, 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

## SAFETY DATA SHEET

### JC648BK BLACK

Version Number 1.7  
Revision Date 10/08/2015

Page 5 of 15  
Print Date 11/24/2015

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

### 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 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

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Antimony trioxide	<b>OSHA PEL (1993-06-30) expressed as Sb</b> PEL: Permissible Exposure Level 0.5 mg/m <sup>3</sup> <b>NIOSH REL (1994-06-01) expressed as Sb</b> Time Weighted Average (TWA) 0.5 mg/m <sup>3</sup> <b>OSHA PEL 1989 (1989-03-01) expressed as Sb</b> PEL: Permissible Exposure Level 0.5 mg/m <sup>3</sup> <b>ACGIH TLV (1994-09-01)</b>
Carbon black	<b>OSHA PEL 1989 (1989-03-01)</b> PEL: Permissible Exposure Level 3.5 mg/m <sup>3</sup> <b>OSHA PEL (1993-06-30)</b> PEL: Permissible Exposure Level 3.5 mg/m <sup>3</sup>

## SAFETY DATA SHEET

**JC648BK BLACK**

Version Number 1.7  
Revision Date 10/08/2015

Page 6 of 15  
Print Date 11/24/2015

	<p><b>NIOSH REL (1994-06-01)</b> Time Weighted Average (TWA) 3.5 mg/m<sup>3</sup> <b>Time Weighted Average (TWA)</b> <b>ACGIH TLV (2010-12-06)</b> TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 3 mg/m<sup>3</sup> Form: Inhalable fraction</p>
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- 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

## SAFETY DATA SHEET

**JC648BK BLACK**

Version Number 1.7  
Revision Date 10/08/2015

Page 7 of 15  
Print Date 11/24/2015

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	:	Not determined
Odor	:	Not available.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	<b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.

## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Avoid contact with acetal homopolymers and acetyl homopolymers

## SAFETY DATA SHEET

### JC648BK BLACK

Version Number 1.7  
Revision Date 10/08/2015

Page 8 of 15  
Print Date 11/24/2015

**Hazardous decomposition products** : during processing.  
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Antimony trioxide	LD50 Oral	Rat	34,000 mg/kg	-
Carbon black	LD50 Oral	Rat	15,400 mg/kg	-

**Conclusion/Summary** : Mixture.Not fully tested.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimony trioxide	Eyes - Mild irritant	Rabbit			-

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Eyes** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

#### Sensitization

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

#### Mutagenicity

**Conclusion/Summary** : Mixture.Not fully tested.

#### Carcinogenicity

**Conclusion/Summary** : Mixture.Not fully tested.

#### Classification



## SAFETY DATA SHEET

### JC648BK BLACK

Version Number 1.7  
Revision Date 10/08/2015

Page 9 of 15  
Print Date 11/24/2015

Product/ingredient name	OSHA	IARC	NTP
Antimony trioxide		2B	
Carbon black		2B	

#### Reproductive toxicity

**Conclusion/Summary** : Mixture. Not fully tested.

#### Teratogenicity

**Conclusion/Summary** : Mixture. Not fully tested.

#### 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** : Not available.

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**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** : Not available.  
**Potential delayed effects** : Not available.

## SAFETY DATA SHEET

### JC648BK BLACK

Version Number 1.7  
Revision Date 10/08/2015

Page 10 of 15  
Print Date 11/24/2015

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Potential chronic health effects

**Conclusion/Summary** : Mixture. Not fully tested.

**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.

## Section 12. Ecological information

#### Toxicity

Product/ingredient name	Result	Species	Exposure
Antimony trioxide			
	Acute LC50 > 530 mg/l Fresh water	Fish - Fish	96 h
	Acute LC50 > 1,000,000 µg/l Marine water	Fish - Fish	96 h
	Acute EC50 423,450 µg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 560 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
	Acute EC50 730 µg/l Fresh water	Aquatic plants - Algae	72 h
	Acute EC50 760 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute EC50 740 µg/l Fresh water	Aquatic plants - Algae	96 h
	Acute No-observable-effect-concentration 200 µg/l Fresh water	Aquatic plants - Algae	4 d

## SAFETY DATA SHEET

**JC648BK BLACK**

Version Number 1.7  
Revision Date 10/08/2015

Page 11 of 15  
Print Date 11/24/2015

Carbon black			
	Acute EC50 37.563 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 61.547 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
JC648BK BLACK			
<b>Remarks - Acute - Aquatic invertebrates.:</b>	Chemicals are not readily available as they are bound within the polymer matrix.		

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

Persistence and degradability

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

Bioaccumulative potential
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.

**United States - RCRA Acute hazardous waste "P" List:** Not listed

## SAFETY DATA SHEET

### JC648BK BLACK

Version Number 1.7  
Revision Date 10/08/2015

Page 12 of 15  
Print Date 11/24/2015

**United States - RCRA Toxic hazardous waste "U" List:** Not listed

### Section 14. Transport information

U.S. DOT Classification : Not regulated for transportation.  
ICAO/IATA : Consult mode specific transport rules  
IMO/IMDG (maritime) : Consult mode specific transport rules

### Section 15. Regulatory information

**U.S. Federal regulations :**

- United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
- United States - TSCA 4(a) - Final Test Rules:** Not listed
- United States - TSCA 4(a) - ITC Priority list:** Not listed
- United States - TSCA 4(a) - Proposed test rules:** Not listed
- United States - TSCA 4(f) - Priority risk review:** Not listed
- United States - TSCA 5(a)2 - Final significant new use rules:** Not listed
- United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
- United States - TSCA 5(e) - Substances consent order:** Not listed
- United States - TSCA 6 - Final risk management:** Not listed
- United States - TSCA 6 - Proposed risk management:** Listed

**Lead**

- United States - TSCA 8(a) - Chemical risk rules:** Not listed
- United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed
- United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined
- United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Not listed
- United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed
- United States - TSCA 8(d) - Health and safety studies:** Not listed
- United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Listed Antimony trioxide  
Zinc stearate  
Di(2-ethylhexyl)phthalate  
Arsenic  
Lead  
Vinyl chloride monomer

## SAFETY DATA SHEET

**JC648BK BLACK**

Version Number 1.7  
Revision Date 10/08/2015

Page 13 of 15  
Print Date 11/24/2015

United States - EPA Clean water act (CWA) section 311 -  
Hazardous substances: Listed  
United States - EPA Clean air act (CAA) section 112 - Accidental  
release prevention - Flammable substances: Not listed  
United States - EPA Clean air act (CAA) section 112 - Accidental  
release prevention - Toxic substances: Not listed  
United States - Department of commerce - Precursor chemical:  
Not listed

Clean Air Act Section 112(b) : Not listed  
Hazardous Air Pollutants (HAPs)  
Clean Air Act Section 602 Class I : Not listed  
Substances  
Clean Air Act Section 602 Class II : Not listed  
Substances  
DEA List I Chemicals (Precursor : Not listed  
Chemicals)  
DEA List II Chemicals (Essential : Not listed  
Chemicals)

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Classification
Antimony trioxide	0.1 - 1	AH, CH
Carbon black	0.1 - 1	CH

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Antimony trioxide	1309-64-4	0.1 - 1
Supplier notification	Antimony trioxide	1309-64-4	0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

## SAFETY DATA SHEET

**JC648BK BLACK**

Version Number 1.7  
Revision Date 10/08/2015

Page 14 of 15  
Print Date 11/24/2015

State regulations

- Massachusetts** : The following components are listed:  
Calcium carbonate
- New York** : The following components are listed:  
Antimony trioxide
- New Jersey** : The following components are listed:  
Ethene, chloro-, homopolymer  
Calcium carbonate  
Antimony trioxide  
Carbon black
- Pennsylvania** : The following components are listed:  
Calcium carbonate  
  
Antimony trioxide  
  
Carbon black

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

- United States inventory (TSCA 8b)** : All components are listed or exempted.
- Canada inventory** : All components are listed or exempted.

International regulations

- International lists** :
- Australia inventory (AICS):** All components are listed or exempted.
  - Taiwan inventory (CSNN):** All components are listed or exempted.
  - Malaysia Inventory (EHS Register):** Not determined.
  - EINECS:** All components are listed or exempted.
  - Japan inventory:** Not determined.
  - China inventory (IECSC):** 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** : Not listed

**SAFETY DATA SHEET****JC648BK BLACK**

Version Number 1.7  
Revision Date 10/08/2015

Page 15 of 15  
Print Date 11/24/2015

List Schedule III Chemicals

**Section 16. Other information****History**

**Date of printing** : 11/24/2015  
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**Date of previous issue** : 07/30/2014  
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**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

**References** : Not available.

**Notice to reader**

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.**