

SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: PAVING BITUMEN 80/100 AF
Product Description: Asphalt/Bitumen
Product Code: 1010903010X0
Intended Use: Mainly used for road paving, Miscellaneous industrial applications

COMPANY IDENTIFICATION

Supplier: ExxonMobil Petroleum & Chemical BV
POLDERDIJKWEG
B-2030 Antwerp
Belgium

24 Hour Emergency Telephone

ALGERIA: +213 2197 9898; MOROCCO: +212 537 68 6464; SENEGAL: +221 33 825 4007; TUNISIA: +216 1 335 500; KENYA: 0 800 720 021
+20 2 279 16 360 / +20 2 279 16 390

Product Technical Information

Supplier General Contact

(BE) +32 3 543 3111

National Poison Control Centre: ALGERIA: +213 2197 9898; MAROCCO: +212 537 68 6464; SENEGAL: +221 33 825 4007; TUNISIA: +216 1 335 500; KENYA: 0 800 720 021

SECTION 2

HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

Other hazard information:

Physical / Chemical Hazards:

Thermal burn hazard - contact with hot material may cause thermal burns.

Health Hazards:

Exposure to high fume concentrations from heated asphalt may cause eye and respiratory tract irritation. Hydrogen sulphide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulphide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odour does not provide a reliable indicator of the presence of hazardous levels in the atmosphere.

Environmental Hazards:

No significant hazards.

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

No Reportable Hazardous Substance(s) or Complex Substance(s).

Name	CAS#	Concentration*	GHS Hazard Codes
ASPHALT (PETROLEUM)	8052-42-4	50 - < 60%	None
OXIDIZED ASPHALT (PETROLEUM)	64742-93-4	50 - < 60%	None

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4 FIRST AID MEASURES

INHALATION

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

SKIN CONTACT

Wash contact areas with soap and water. If burned by contact with hot material, molten material adhering to skin should be cooled as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

EYE CONTACT

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

NOTE TO PHYSICIAN

None

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use dry chemical, carbon dioxide (CO₂), or a dry, non-combustible material such as dry sand or earth to extinguish flames.

Inappropriate Extinguishing Media: DO NOT USE WATER.

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in

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enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Aldehydes, Hydrogen sulphide, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulphur oxides

FLAMMABILITY PROPERTIES

Flash Point [Method]: >230°C (446°F) [EN/ISO 2592]

Flammable Limits (Approximate volume % in air): LEL: 0.5 UEL: 5.0

Autoignition Temperature: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: half-face or full-face respirator with filter(s) for organic vapor and, when applicable, H₂S, or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Chemical goggles and face shield are recommended if contact of eyes with hot product or vapours is possible. Small spills: normal work clothes are usually adequate. Large spills: full body suit of chemical and thermal resistant material is recommended. Work gloves (preferably gauntlet style) that provide adequate chemical resistance. Note: gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. If contact with hot product is possible or anticipated, heat-resistant and thermally insulated gloves are recommended.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do so without risk. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapour-suppressing foam may be used to reduce vapour. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Water Spill: Stop leak if you can do so without risk. Material will sink. Consult an expert.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7	HANDLING AND STORAGE
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HANDLING

Avoid vapour from heated materials to prevent exposure to potentially toxic/irritating fumes. Hydrogen sulphide (H₂S) may be given off when this material is heated. Do not depend on sense of smell for warning. When heating to normal handling temperatures, avoid local overheating. Use only with adequate ventilation. Prevent small spills and leakage to avoid slip hazard.

Loading/Unloading Temperature: > 90°C (194°F)

Static Accumulator: This material is not a static accumulator.

STORAGE

Non-absorbent insulation such as foam glass is recommended for tankage and piping. Do not store in open or unlabelled containers.

Storage Temperature: < 190°C (374°F)

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive):

Substance Name	Form	Limit/Standard			Note	Source
Asphalt [benzene solubles]	Fume, inhalable	TWA	0.5 mg/m ³			ACGIH
PAVING BITUMEN 70/100 EM [benzene solubles]	Fume.	TWA	0.5 mg/m ³			ACGIH
Asphalt [benzene solubles]	Fume, inhalable	TWA	0.5 mg/m ³			ACGIH
Hydrogen sulphide		STEL	14 mg/m ³	10 ppm		ExxonMobil
Hydrogen sulphide		TWA	7 mg/m ³	5 ppm		ExxonMobil
Hydrogen sulphide		STEL	5 ppm			ACGIH
Hydrogen sulphide		TWA	1 ppm			ACGIH

Exposure limits/standards for materials that can be formed when handling this product: For dusty conditions, ACGIH recommends for insoluble and poorly soluble particles not otherwise specified an 8-hour TWA of 10 mg/m³ (inhalable particles), 3 mg/m³ (respirable particles).

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s):

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:
 No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications,

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handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Positive-pressure, air-supplied respirator in areas where H₂S vapours may accumulate is recommended. European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If product is hot, thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. CEN standards EN 420 and EN 374 provide general requirements and lists of glove types.

Eye Protection: If contact with material may occur, safety glasses and face shield are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State: Solid

Colour: Black

Odour: Petroleum/Solvent

Odour Threshold: N/D

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IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 25 °C): 1 - 1.1
 Flammability (Solid, Gas):
 Flash Point [Method]: >230°C (446°F) [EN/ISO 2592]
 Flammable Limits (Approximate volume % in air): LEL: 0.5 UEL: 5.0
 Autoignition Temperature: N/D
 Boiling Point / Range: > 400°C (752°F) [Estimated]
 Decomposition Temperature: N/D
 Vapour Density (Air = 1): > 1 at 101 kPa [Estimated]
 Vapour Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C [Estimated]
 Evaporation Rate (n-butyl acetate = 1): N/A
 pH: N/A
 Log Pow (n-Octanol/Water Partition Coefficient): > 6 [Estimated]
 Solubility in Water: Negligible
 Viscosity: [N/A at 40°C] | 230 cSt (230 mm2/sec) at 135°C
 Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/A
 Melting Point: N/A

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Contact of hot product with water., Overheating.

MATERIALS TO AVOID: Alkalies, Halogens, Strong Acids, Strong oxidisers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks
Inhalation	
Acute Toxicity: (Rat) 4 hour(s) LC50 > MAXCONC	Minimally Toxic. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 403
Irritation: No end point data for material.	Elevated temperatures or mechanical action may form vapours, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
Ingestion	
Acute Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 401
Skin	
Acute Toxicity (Rabbit): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 402
Skin Corrosion/Irritation: Data available.	Negligible irritation to skin at ambient temperatures. Based on test

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	data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 404
Eye	
Serious Eye Damage/Irritation: Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 405
Sensitisation	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: Data available.	Not expected to be a skin sensitizer. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 406
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
Germ Cell Mutagenicity: Data available.	Not expected to be a germ cell mutagen. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 471 474
Carcinogenicity: Data available.	Not expected to cause cancer. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 451
Reproductive Toxicity: Data available.	Not expected to be a reproductive toxicant. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 422
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: Data available.	Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 410 412 413 422

OTHER INFORMATION

For the product itself:

Asphalt (bitumen): May contain low levels of polycyclic aromatic compounds (PACs), some of which are suspected of causing cancer under conditions of poor industrial hygiene and prolonged repeated contact. These PACs may also be inhaled. Inhalation studies at high concentrations of fumes resulted in bronchitis, pneumonitis, fibrosis and cell damage. Avoid contact with the asphalt emissions.

Contains:

HYDROGEN SULPHIDE: Chronic health effects due to repeated exposures to low levels of H₂S have not been established. High level (700 ppm) acute exposure can result in sudden death. High concentrations will lead to cardiopulmonary arrest due to nervous system toxicity and pulmonary edema. Lower levels (150 ppm) may overwhelm sense of smell, eliminating warning of exposure. Symptoms of overexposure to H₂S include headache, fatigue, insomnia, irritability, and gastrointestinal problems. Repeated exposures to approximately 25 ppm will irritate mucous membranes and the respiratory system and have been implicated in some eye damage. EMISSIONS (generated from heated bitumen product): According to The International Agency for Research on Cancer (IARC), certain specific occupational uses of bitumen products may result in carcinogenic hazards, as follows: (a) Occupational exposures to oxidized bitumens and their emissions during roofing are 'probably carcinogenic to humans' (Group 2A), (b) occupational exposures to hard bitumens and their emissions during mastic asphalt work are 'possibly carcinogenic to humans' (Group 2B), and (c) occupational exposures to straight-run bitumens and their emissions during road paving are 'possibly carcinogenic to humans' (Group 2B). These levels of hazard identified by IARC are associated with the specified occupational uses which require heating. Oxidized asphalts have been defined as having a Penetration Index

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(PI) of > 2.0.

SECTION 12	ECOLOGICAL INFORMATION
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The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Majority of components -- Low water solubility, expected to sink and migrate into the sediment. Expected to partition to sediment and wastewater solids.

Material -- Low potential to migrate through soil.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Material -- Expected to be persistent.

BIOACCUMULATION POTENTIAL

Material -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13	DISPOSAL CONSIDERATIONS
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Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

SECTION 14	TRANSPORT INFORMATION
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LAND (ADR/RID)

Proper Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S. (Bitumen)

Hazard Class: 9

Classification Code: M9

UN Number: 3257

Packing Group: III

Label(s) / Mark(s): 9 (ET)

Hazard ID Number: 99

Hazchem EAC: 2Y

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SEA (IMDG)

Proper Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S. (Bitumen)

Hazard Class & Division: 9

EMS Number: F-A,S-P

UN Number: 3257

Packing Group: III

Marine Pollutant: No

Label(s): 9 (ET)

Transport Document Name: UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S. (Bitumen), 9, PG III

AIR (IATA)

Proper Shipping Name: NOT STANDARD PRACTICE

Hazard Class & Division:

UN Number:

Packing Group: (N/A)

Label(s) / Mark(s):

Transport Document Name: NOT STANDARD PRACTICE,

[Footnote: Product classified as UN 3257 is forbidden by air transport but the product may be transported by air if its temperature is less than 100 deg. C (212 deg. F). If the product is offered for transport at less than 100 deg. C (212 deg. F), the transport classification is Not Regulated.]

SECTION 15

REGULATORY INFORMATION

This material is not considered hazardous according to the Classification of Chemicals based on Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories (May contain substance(s) subject to notification to the EPA Active TSCA inventory prior to import to USA): AIIIC, DSL, ENCS, IECSC, KECI, PICCS, TSCA

SECTION 16

OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Article 31 statement information was deleted.

Composition: Component Table information was added.

Composition: Concentration Footnote information was added.

Composition: Defined as statement (CLP) information was deleted.

Composition: Defined as statement (GHS) information was added.

Composition: No components information was added.

Composition: No components information was deleted.

Composition: Regulated as Header information was deleted.

Composition: Substances Table(s) - Header - Disclosure information was deleted.

EU REACH-CLP Subheading Number information was deleted.

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Hazard Identification: EU - Hazards Statement - GHS information was added.
Hazard Identification: Hazards Note information was added.
Hazard Identification: Physical/Chemical Hazards - Header information was deleted.
Section 01: Company Contact Methods information was added.
Section 01: Company Contact Methods information was deleted.
Section 01: Company Emergency Contact information was deleted.
Section 01: Company Mailing Address information was modified.
Section 01: Hazard Classification - Header information was deleted.
Section 01: Product - Header information was deleted.
Section 01: Product Code - Header information was deleted.
Section 01: Product Intended Use - Header information was deleted.
Section 01: Product Intended Use Phrases information was deleted.
Section 01: Product Intended Use information was added.
Section 01: Product Intended Use information was deleted.
Section 01: Product Uses - Header information was deleted.
Section 01: Supplier Mailing Address information was modified.
Section 02:: REACH PBT Environmental Hazards Note information was deleted.
Section 04: Description of First Aid Measures - Header information was deleted.
Section 04: First Aid Notes information was added.
Section 04: First Aid Notes information was deleted.
Section 04: Indication of Immediate Medical Attention - Header information was deleted.
Section 04: Most Important Symptoms - Header information was deleted.
Section 04: Symptoms and Effects information was deleted.
Section 05: Fire Fighting Measures - Advice for Fire Fighters - Header information was deleted.
Section 05: Fire Fighting Measures - Hazardous Combustion Products - Header information was deleted.
Section 05: Fire Fighting Measures - Special Hazards - Header information was deleted.
Section 05: Fire Fighting Measures - Suitable Extinguishing Media - Header information was deleted.
Section 05: Fire Fighting Measures - Unsuitable Extinguishing Media - Header information was deleted.
Section 06: Accidental Release Measures - Environmental Precautions information was deleted.
Section 06: Accidental Release Measures - Environmental Precautions information was modified.
Section 06: Notification Procedures - Header information was deleted.
Section 06: Protective Measures information was modified.
Section 06: References to other sections - Header information was deleted.
Section 06: Spill Management - Header information was deleted.
Section 07: Handling and Storage - Header information was deleted.
Section 07: Handling and Storage - Specific Use - Header information was deleted.
Section 07: Handling and Storage - Specific Use information was deleted.
Section 07: Handling and Storage - Storage information was deleted.
Section 08: Environmental Control - Note information was deleted.
Section 08: Environmental Control - Note information was modified.
Section 08: Environmental Controls - Header information was deleted.
Section 08: Exposure Limit Values - Header information was modified.
Section 08: Exposure Limits Table information was modified.
Section 08: Exposure limits/standards information was modified.
Section 08: Personal Protection information was modified.
Section 09: Autoignition Temperature information was added.
Section 09: Autoignition Temperature information was deleted.
Section 09: Boiling Point - Header information was deleted.
Section 09: Boiling Point °C(°F) information was added.
Section 09: Boiling Point °C(°F) information was deleted.
Section 09: Decomposition Temp - Header information was deleted.
Section 09: Decomposition Temp C(F) information was added.

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Section 09: Decomposition Temperature information was deleted.
Section 09: Evaporation Rate information was added.
Section 09: Evaporation Rate information was deleted.
Section 09: Explosive Properties information was deleted.
Section 09: Flammability (Solid, Gas) information was deleted.
Section 09: Flammable Limits - Header information was deleted.
Section 09: Flammable Limits - LEL information was added.
Section 09: Flammable Limits - LEL information was deleted.
Section 09: Flammable Limits - UEL information was added.
Section 09: Flammable Limits - UEL information was deleted.
Section 09: Flash Point °C(°F) information was added.
Section 09: Flash Point °C(°F) information was deleted.
Section 09: Freezing Point °C(°F) information was added.
Section 09: Freezing Point °C(°F) information was deleted.
Section 09: General Information - Header information was deleted.
Section 09: LEL Flammability test method information was deleted.
Section 09: Melting Point C(F) information was added.
Section 09: Melting Point C(F) information was deleted.
Section 09: n-Octanol/Water Partition Coefficient information was added.
Section 09: n-Octanol/Water Partition Coefficient information was deleted.
Section 09: Other Information - Header information was deleted.
Section 09: Other Information Default information was deleted.
Section 09: Oxidizing Properties - Header information was deleted.
Section 09: Oxidizing properties information was deleted.
Section 09: pH information was added.
Section 09: pH information was deleted.
Section 09: Phys/Chem Properties Note information was modified.
Section 09: Physical State information was added.
Section 09: Physical State information was deleted.
Section 09: Relative Density information was added.
Section 09: Relative Density information was deleted.
Section 09: Solubility in Water information was deleted.
Section 09: Vapor density information was deleted.
Section 09: Vapour Pressure information was added.
Section 09: Vapour Pressure information was deleted.
Section 09: Viscosity information was added.
Section 09: Viscosity information was deleted.
Section 10: Chemical Stability - Header information was deleted.
Section 10: Incompatible Materials - Header information was deleted.
Section 10: Possibility of Hazardous Reactions information was added.
Section 10: Possibility of Hazardous Reactions information was deleted.
Section 10: Reactivity - Header information was deleted.
Section 10: Reactivity information was deleted.
Section 11: Acute Toxicity Table Header information was added.
Section 11: Acute Toxicity Table Header information was deleted.
Section 11: Additional Health Information information was modified.
Section 11: Aspiration Test Data information was added.
Section 11: Aspiration Test Data information was deleted.
Section 11: Carcinogen Test Data information was added.
Section 11: Carcinogen Test Data information was deleted.
Section 11: Chronic Tox - Component information was modified.
Section 11: Chronic Tox - Product information was modified.

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Section 11: Dermal Irritation Test Data information was added.
Section 11: Dermal Irritation Test Data information was deleted.
Section 11: Dermal Lethality Test Data information was added.
Section 11: Dermal Lethality Test Data information was deleted.
Section 11: Eye Irritation Test Data information was added.
Section 11: Eye Irritation Test Data information was deleted.
Section 11: Inhalation Lethality Test Data information was added.
Section 11: Inhalation Lethality Test Data information was deleted.
Section 11: Lactation Test Data information was added.
Section 11: Lactation Test Data information was deleted.
Section 11: Mutagen Test Data information was added.
Section 11: Mutagen Test Data information was deleted.
Section 11: Oral Lethality Test Data information was added.
Section 11: Oral Lethality Test Data information was deleted.
Section 11: Other Health Effects Header information was modified.
Section 11: Other Health Effects information was modified.
Section 11: Reproductive Test Data information was added.
Section 11: Reproductive Test Data information was deleted.
Section 11: Respiratory Sensitization Test Data information was added.
Section 11: Respiratory Sensitization Test Data information was deleted.
Section 11: Skin Sensitization Test Data information was added.
Section 11: Skin Sensitization Test Data information was deleted.
Section 11: Target Organ Toxicity - Repeat Test Data information was added.
Section 11: Target Organ Toxicity - Repeat Test Data information was deleted.
Section 11: Target Organ Toxicity - Single Test Data information was added.
Section 11: Target Organ Toxicity - Single Test Data information was deleted.
Section 12: Bioaccumulation - Header information was added.
Section 12: Ecological Information - Acute Aquatic Toxicity information was modified.
Section 12: Ecological Information - Bioaccumulation information was modified.
Section 12: Ecological Information - Biodegradation information was modified.
Section 12: Ecological Information - Mobility information was modified.
Section 12: Ecotoxicity - Header information was added.
Section 12: Mobility - Header information was added.
Section 12: Other Adverse Effects information was deleted.
Section 12: PBT/vPvB information was deleted.
Section 12: Persistence and Degradability- Header information was added.
Section 12: information was modified.
Section 13: Disposal Considerations - Disposal Recommendations information was modified.
Section 13: Disposal Recommendations - Note information was modified.
Section 13: European Waste Codes - NOTE information was deleted.
Section 13: European Waste Codes information was deleted.
Section 14: ADN Environmental Hazards information was deleted.
Section 14: ADN Technical Name - All information was deleted.
Section 14: ADR Special Precautions for users - Header information was deleted.
Section 14: Environmental Hazards - Header information was deleted.
Section 14: Environmental Hazards information was deleted.
Section 14: Hazard Class - Header information was deleted.
Section 14: Hazard Class & Division - Header information was deleted.
Section 14: Hazard Class & Division information was deleted.
Section 14: Hazard ID Number information was deleted.
Section 14: IATA Environmental Hazards - Header information was deleted.
Section 14: IATA Environmental Hazards information was deleted.

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Section 14: IATA Footnote information was modified.
Section 14: IATA Special Precautions for users - Header information was deleted.
Section 14: IMDG Special Precautions for users - Header information was deleted.
Section 14: IMO ANNEX II - Default information was deleted.
Section 14: IMO ANNEX II - Header information was deleted.
Section 14: Label(s) information was deleted.
Section 14: Marine Pollutant information was added.
Section 14: Packing Group - Header information was deleted.
Section 14: Packing Group information was deleted.
Section 14: Proper Shipping Name - Header information was deleted.
Section 14: Proper Shipping Name information was deleted.
Section 14: UN Number - Header information was deleted.
Section 14: UN Number information was deleted.
Section 15: Applicable EU Directives and Regulations information was deleted.
Section 15: EC Regs/Legs - Header information was deleted.
Section 15: EU Directives and Regulations information was deleted.
Section 15: Labeling - Header information was deleted.
Section 15: National Chemical Inventory Listing information was modified.
Section 15: REACH Chemical Safety Assessment statement header information was deleted.
Section 15: REACH Chemical Safety Assessment statement information was deleted.
Section 15: United Arab Emirates Hazard Statement information was added.
Section 16: MSN, MAT ID information was modified.
Section 16: Source Reference information was deleted.

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MHC: 0B, 0B, 0, 0, 0, 1

PPEC: C

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