

Product Name: SPENT TK-550 CATALYST
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SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: SPENT TK-550 CATALYST
Product Description: Spent Catalyst
Product Code: 343137-85
Intended Use: Catalyst

COMPANY IDENTIFICATION

Supplier: MOBIL REFINING AUSTRALIA PTY LTD
A.B.N. 48 004 300 163
Cnr Kororoit Creek & Millers Road
Altona
Victoria 3018 Australia

24 Hour Emergency Telephone	+61 3 9217 5300
Supplier General Contact	+61 3 9217 5300
SDS Internet Address	www.msds.exxonmobil.com

SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

GHS CLASSIFICATION:

Respiratory Sensitizer: Category 1. Skin Sensitizer: Category 1.

GHS Label Elements:

Pictogram:



Signal Word: Danger

Hazard Statements:

Health: H317: May cause an allergic skin reaction. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Precautionary Statements:

Prevention: P261: Avoid breathing dust. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P284: In case of inadequate ventilation, wear respiratory protection.

Response: P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P362 + P364: Take off contaminated clothing and wash it before reuse. P391: Collect spillage.

Disposal: P501: Dispose of contents and container in accordance with local regulations.

Contains: COBALT(II) SULFIDE

Other hazard information:

Physical / Chemical Hazards:

WARNING: May form combustible dust concentrations in air (during processing/handling).

Health Hazards:

If dust is generated, it could scratch the eyes and cause minor irritation to the respiratory tract. Under conditions of poor personal hygiene and prolonged repeated contact, some polycyclic aromatic compounds (PACs) have been suspected as a cause of skin cancer in humans. This product contains aromatic oils. Aromatic oils contain high concentrations of polycyclic aromatic compounds. Prolonged skin contact may produce serious toxic effects including skin cancer, liver damage, blood effects and effects on the unborn. Excessive exposure may result in eye, skin, or respiratory irritation.

Environmental Hazards:

Expected to be very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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.

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
ALUMINUM OXIDE, NON FIBROUS	1344-28-1	60 - 85%	None
COBALT(II) SULFIDE	1317-42-6	5 - 10%	H317, H334, H400(M factor 10), H410(M factor 1)
MOLYBDENUM SULFIDE	12612-50-9	5 - 30%	None
SILICA	7631-86-9	1 - 5%	None
THERMOCRACKED COKE	64741-79-3	20 - 30%	None

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* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Other ingredients determined not to be hazardous up to 100%.

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

Remove contaminated clothing. Dry wipe exposed skin and cleanse with waterless hand cleaner and follow by washing thoroughly with soap and water. For those providing assistance, avoid further skin contact to yourself or others. Wear impervious gloves. Launder contaminated clothing separately before reuse. Discard contaminated articles that cannot be laundered.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, 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 water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of 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 enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard. Exposure to fire can generate toxic fumes.

Hazardous Combustion Products: Incomplete combustion products, Metal Oxides, Nitrogen oxides, Oxides of carbon, Smoke, Fume, Sulphur oxides

FLAMMABILITY PROPERTIES

Flash Point [Method]: N/A

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

Hazchem Code: 2Z

SECTION 6	ACCIDENTAL RELEASE MEASURES
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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. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (for example, clearing dust surfaces with compressed air). Prevent dust exposure to ignition sources. For example, use non-sparking tools and prohibit smoking, flares, sparks or flames in immediate area. 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.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do so without risk. Do not touch or walk through spilled material. Prevent dust cloud. **Small Dry Spills:** With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Consult an expert. Skim from surface

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

Prevent entry into waterways, sewers, basements or confined areas. For Large Spills: Cover spill with plastic sheet or tarpaulin to minimise spreading.

SECTION 7	HANDLING AND STORAGE
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HANDLING

Avoid all personal contact. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dust from material can accumulate electrostatic charges due to friction from transfer and mixing operations and cause an electrical spark (ignition source). Provide adequate precautions to ignition sources, such as electrical grounding and bonding, inert atmosphere or non-sparking tools. However, bonding and grounds may not eliminate the hazard for static accumulation. Consult local applicable standards for guidance. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids and EN 61241, Electrical Apparatus for Use in the Presence of Combustible Dust for safe handling. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is a static accumulator.

STORAGE

Material should be stored under an inert atmosphere. The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

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

Substance Name	Form	Limit/Standard			Note	Source
ALUMINUM OXIDE, NON FIBROUS	Inhalable dust.	TWA	10 mg/m3			Australia WES
ALUMINUM OXIDE, NON FIBROUS	Respirable fraction.	TWA	1 mg/m3			ACGIH
COBALT(II) SULFIDE [as Co]		TWA	0.02 mg/m3			ACGIH
MOLYBDENUM SULFIDE [as Mo]		TWA	10 mg/m3			Australia WES
MOLYBDENUM SULFIDE [as Mo]	Respirable fraction.	TWA	0.5 mg/m3			ACGIH
SILICA	Respirable dust.	TWA	2 mg/m3			Australia WES
THERMOCRACKED COKE	Inhalable dust.	TWA	10 mg/m3			Australia WES
THERMOCRACKED COKE [as V2O5]		TWA	0.05 mg/m3			ExxonMobil
THERMOCRACKED COKE	Respirable fraction.	TWA	3 mg/m3			ExxonMobil
THERMOCRACKED COKE	Inhalable particles.	TWA	10 mg/m3			ACGIH
THERMOCRACKED COKE	Respirable particles.	TWA	3 mg/m3			ACGIH

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Biological limits

Substance Name	Specimen	Sampling Time	Limit	Determinant	Source
COBALT(II) SULFIDE	Urine	End of shift at end of work wk	15 ug/l	Cobalt	ACGIH BELs (BELs)

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Ventilate as needed to control airborne dust. Use explosion proof ventilation equipment if airborne

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dust levels are high. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product are designed and maintained to minimize dust generation and accumulation. Ensure that dust-handling systems (such as exhaust ducts, dusts collectors, vessels, and processing equipment) are designed to minimize the potential for dust ignition and prevent explosion propagation. For example, use explosion relief vents, an explosion suppression system or inert equipment internals. Additional examples of proper equipment include using only appropriately classified electrical equipment and powered industrial trucks.

PERSONAL PROTECTION

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

Particulate air-purifying respirator approved for dust or oil mist is recommended.

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:

Nitrile, Viton

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Eye Protection: If contact is likely, safety glasses with side shields are recommended. If dusty conditions exist, chemical goggles 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:

Chemical/oil resistant clothing is 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. Practise 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.

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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: Dark Gray
Odour: Mild Petroleum/Solvent
Odour Threshold: N/A

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 °C): 0.55 - 0.8
Bulk Density: 0.65 g/cc at 20 °C
Flammability (Solid, Gas): N/A
Flash Point [Method]: N/A
Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D
Autoignition Temperature: N/D
Boiling Point / Range: N/A
Decomposition Temperature: N/D
Vapour Density (Air = 1): N/A
Vapour Pressure: N/A
Evaporation Rate (n-butyl acetate = 1): N/A
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): N/D
Solubility in Water: Negligible
Viscosity: N/A
Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

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

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. Air. High dust concentrations.

INCOMPATIBLE MATERIALS: 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
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Inhalation	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
Ingestion	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
Eye	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
Sensitisation	
Respiratory Sensitization: No end point data for material.	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Based on assessment of the components.
Skin Sensitization: No end point data for material.	May cause allergic skin reaction. Based on assessment of the components.
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
Germ Cell Mutagenicity: No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
Carcinogenicity: No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
Reproductive Toxicity: No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
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. Based on assessment of the components.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

TOXICITY FOR SUBSTANCES

NAME	ACUTE TOXICITY
SILICA	Inhalation Lethality: 4 hour(s) LC50 > 0.14 mg/l (Max. attainable aerosol conc.) (Rat)

OTHER INFORMATION

Contains:

AMORPHOUS SILICA : Most amorphous silicas (e.g., diatomaceous earth and precipitated silica) have relatively little adverse effects, although high aerosol concentrations may cause irritation of respiratory tract or, with prolonged exposure, possible benign pneumoconiosis. Aerosols of fused amorphous silica are thought to have greater potential to cause pulmonary fibrosis.

Cobalt compounds: Some compounds caused tumours and reproductive effects in laboratory animals. May cause dermatitis and skin sensitisation. Inhalation of dusts can result in respiratory irritation, pneumoconiosis and asthma.

Polycyclic Aromatic Compounds (PAC/PNA): Carcinogenic in animal studies. Caused mutations in-vitro.

Reproductive and developmental studies resulted in decreased fetal weights, survival and malformations, as well as reduced sperm count in males. Dermal studies resulted in increased mortality, skin irritation, liver, kidney, thymus, bone

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marrow, blood and lymphoid tissue toxic effects. Possible allergen and/or photoallergen.

IARC Classification:

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
COBALT(II) SULFIDE	1317-42-6	3

--REGULATORY LISTS SEARCHED--

1 = IARC 1

2 = IARC 2A

3 = IARC 2B

SECTION 12 ECOLOGICAL INFORMATION

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 -- Expected to be very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

MOBILITY

Material -- Can float on water, but will sink when saturated.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Material -- Expected to be persistent.

BIOACCUMULATION POTENTIAL

Material -- Potential to bioaccumulate is low.

SECTION 13 DISPOSAL CONSIDERATIONS

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

Recycle empty drums at an appropriate facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. Ensure drums are tightly sealed.

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.

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SECTION 14	TRANSPORT INFORMATION
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LAND (ADG)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt sulphide)
Dangerous Goods Class/Subsidiary Risk: 9
Hazchem Code: 2Z
UN Number: 3077
Packing Group: III
Label(s): 9, EHS
Special Provisions: 274, 331, 335, 375, AU01

SEA (IMDG)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt sulphide)
Hazard Class & Division: 9
EMS Number: F-A, S-F
UN Number: 3077
Packing Group: III
Marine Pollutant: Yes
Label(s): 9
Transport Document Name: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (Cobalt sulphide), 9, PG III, MARINE POLLUTANT

Footnote: Not subject to the provisions of UN3077 Environmentally hazardous substances solid, n.o.s., if shipped in quantities of 5 kilograms or less per single or inner combination packaging as per IMDG code 2.10.2.7.

AIR (IATA)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt sulphide)
Hazard Class & Division: 9
UN Number: 3077
Packing Group: III
Label(s) / Mark(s): 9, EHS
Transport Document Name: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (Cobalt sulphide), 9, PG III

[Footnote: Not subject to the provisions of UN3077 Environmentally hazardous substances solid, n.o.s., if shipped in quantities of 5 kilograms or less per single or inner combination packaging as per Special Provision A197.]

SECTION 15	REGULATORY INFORMATION
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This material is considered hazardous according to Australia Model Work Health and Safety Regulations.

Product is regulated according to Australian Dangerous Goods Code.

No Poison Schedule number allocated by the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act.

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REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories : KECI

SECTION 16

OTHER INFORMATION

KEY TO ABBREVIATIONS AND ACRONYMS:

N/D = Not determined, N/A = Not applicable, STEL = Short-Term Exposure Limit, TWA = Time-Weighted Average

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H317: May cause allergic skin reaction; Skin Sensitisation, Cat 1

H334: May cause allergic or asthmatic symptoms or breathing difficulties if inhaled; Respiratory Sens, Cat 1

H400: Very toxic to aquatic life; Acute Env Tox, Cat 1

H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

GHS Physical Hazards information was deleted.

GHS Physical/Chemical Classification information was deleted.

GHS Physical/Chemical Symbol information was deleted.

GHS Precautionary Statements - Prevention information was modified.

GHS Precautionary Statements - Storage information was deleted.

Hazard Identification: Health Hazards information was modified.

Section 05: Fire Fighting Measures - Appropriate Extinguishing Media information was modified.

Section 05: Fire Fighting Measures - Inappropriate Extinguishing Media information was modified.

Section 06: Accidental Release - Spill Management - Land information was modified.

Section 08: Exposure Limits Table information was modified.

Section 11: Inhalation Lethality Test Comment information was deleted.

Section 11: Respiratory Sensitization Test Comment information was added.

Section 14: ADG Technical Name - All information was modified.

Section 14: Dangerous Goods Class/Subsidiary Risk information was modified.

Section 14: EMS Number information was modified.

Section 14: Hazard Class information was modified.

Section 14: Hazchem Code information was modified.

Section 14: IATA Footnote information was added.

Section 14: IATA Technical Name - All information was modified.

Section 14: IMDG Footnote information was added.

Section 14: IMO Technical Name - All information was modified.

Section 14: Label(s) information was modified.

Section 14: Packing Group information was modified.

Section 14: Proper Shipping Name information was modified.

Section 14: Special Provisions information was modified.

Section 14: Transport Document Name information was modified.

Section 14: UN Number information was modified.

THIS SDS COVERS THE FOLLOWING MATERIALS: Spent KF 757

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included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

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End of (M)SDS