

SAFETY DATA SHEET

DATE OF ISSUE: September 30, 2022

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Identification of the Substance

Product Code : CCT 111

Product Name : Combustion Catalyst
Product Family : Fuel Treatment
Product Description : A blend of aromatic hydrocarbons and additives.

Supplier : Goldcrest International Singapore Pte Ltd
38 Tech Park Crescent
Singapore 638098
Tel: (65) 6862 6006
Fax: (65) 6863 3665
Email: sales@goldcrest.com.sg

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification

Physical:

Flammable liquid: Category 3

Health:

Carcinogen: Category 2. Target organ toxicant (central nervous system): Category 3

Aspiration toxicant: Category 1. Causes skin burns. Causes severe eye irritation

Environmental:

Acute aquatic toxicant: Category 2. Chronic aquatic toxicant: Category 2

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard Statements:

Physical

H226: Flammable liquid and vapor.

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Health

- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H373: May cause damage to organs through prolonged or repeated exposure.

Environmental

- H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention

- P210: Keep away from hot surfaces – No smoking.
- P261: Avoid breathing mist/vapors.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P281: Use personal protective equipment as required.

Response

- P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- P308+313: IF exposed or concerned: Get medical advice/attention.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P331: Do NOT induce vomiting.
- P332+313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P370+378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P391: Collect spillage.

Storage

- P403+235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.

Disposal

- P501: Dispose of contents and container in accordance with local regulations.
- Other hazard information:

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Physical /Chemical Hazards

Material can accumulate static charges which may cause an ignition. Material can release vapors that readily form flammable mixtures. Vapors accumulation could flash and / or explode if ignited.

Health hazards

This material may be irritating to eyes, nose, throat and lungs. Repeated exposure may cause skin dryness or cracking. May affect the central nervous system and cause depression.

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	CONCENTRATION %
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	30 - 40
Diesel	68334-30-5	40 - 50
Amines, coco alkyl	61788-46-3	5 - 10
Manganese Octoate	6535-19-9	0.5 – 1.0
Mineral spirit aliphatic	64742-88-7	5 - 10

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Wash skin with soap and plenty of water. Get medical attention if symptoms persist. Remove contaminated clothing. Launder contaminated clothing before reuse.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Seek immediate medical attention. Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Note to Physician

If ingested, material may be aspirated into the lungs and cause pulmonary edema and chemical pneumonitis. Treat appropriately.

Pre-existing medical conditions which may be aggravated by exposure

Contains hydrocarbon solvent/petroleum hydrocarbons; skin contact may aggravate an existing dermatitis.

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SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Use water fog, alcohol-resistant 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 runoff from fire control or dilution from entering streams or sewers. Firefighters 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.

Hazardous decomposition products:

Under fire conditions smoke, fume, aldehydes, sulfur oxides, incomplete combustion products and oxides of carbon are produced.

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.

Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled material. Warn or evacuate occupants in surrounding areas if required due to toxicity or flammability of the material.

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains. Discharge into the environment must be avoided. Dyke far ahead of the liquid spill for later recovery and disposal.

Methods and materials for containment cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable closed containers for disposal.

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SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Material can accumulate static charge that may cause an electrical spark (ignition source). Use proper bonding and ground procedures. This material is a static accumulator as its conductivity is low.

Conditions of safe storage

Store the material in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage containers should be grounded and bonded.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values

Substance Name	Form	Limit/Standard			Note	Source
SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC	Vapor	RCP-TWA	100 mg/m ³	17 ppm	Total Hydrocarbons	Exxon Mobil
NAPHTHALENE		TWA	10 ppm		Skin	ACGIH
DIESEL OIL C9-20	Stable Aerosol	TWA	5 mg/m ³			Exxon Mobil
Amines, coco alkyl			Not available			
Manganese Octoate			Not available			
Mineral spirit	vapor	TLV		100 ppm		ACGIH

Engineering Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measure to consider:

Use explosion-proof ventilation equipment to stay below exposure limits.

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. For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode.

Hand Protection:

If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection:

Chemical / oil resistant clothing is recommended.

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Specific Hygiene Measures:

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

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Appearance	: Dark brown to black,
Odor	: Kerosene like
Boiling point	: > 180°C
Freezing point	: < -10°C
Flash point (PMCC)	: 67°C
Specific Gravity at 25°C	: 0.86 – 0.90
Vapor pressure	: 0.3 kpa (as Aromatic Hydrocarbon Solvent)
Vapor Density (air = 1)	: > 1.0 (as Aromatic Hydrocarbon Solvent)
Evaporation Rate	: 0.09 (as Aromatic Hydrocarbon Solvent)
Butyl acetate = 1	
Solubility in water	: Insoluble
Viscosity at 25°C	: < 20 cps

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability

Stable under normal storage conditions.

Conditions to avoid

Heat, flames, ignition sources and incompatibles.

Incompatible materials

Halogens, Strong oxidizing agents, strong acids and strong bases.

Hazardous decomposition products

Under fire conditions smoke, fume, aldehydes, sulfur oxides, incomplete combustion products and oxides of carbon are produced.

Hazardous Polymerization: will not occur.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity based on available data
Based on Solvent Naphtha (Petroleum), Heavy
Ingestion: LD50 > 6000 mg/kg
Skin: LD50 > 2000 mg/kg
Based on Diesel
Inhalation: Toxicity (Rat): LC50 4100 mg/m³
Ingestion: Toxicity (Rat): LD50 > 5000 mg/kg
Skin: Toxicity (Rabbit): LD50 > 5000 mg/kg
Based on Amines, coco alkyl
LD50 Rat Oral: 1300 mg/kg
LD50 Rabbit Dermal: >2000 mg/kg
Based on 10% Manganese Octoate
No data available

Other health effects from short and long term exposure

Anticipated health effects from sub-chronic, chronic, respiratory or skin sensitization, mutagenicity, reproductive toxicity, carcinogenicity, target organ toxicity (single exposure or repeated exposure), aspiration toxicity and other effects based on human experience and /or experimental data.
Exposure to Naphthalene present in Solvesso 150 Fluid and in Diesel may cause destruction of red blood cells, anemia, and cataracts. Naphthalene caused cancer in laboratory animal studies, but the relevance of these findings to humans is uncertain.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

The material is expected to be toxic to aquatic organisms. It may cause long-term adverse effects in the aquatic environment.

Mobility

More volatile component will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

Less volatile component having low solubility and floats and is expected to migrate from water to the land and expected to partition to sediment and wastewater solids.

Majority of components have low potential to migrate through soil.

Persistence and degradability:

Biodegradation:

The material is expected to be inherently biodegradable.

Atmospheric Oxidation:

Majority of components are expected to degrade rapidly in air.

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Bioaccumulation potential:

Some of the components have the potential to bio-accumulate; however metabolism or physical properties may reduce the bio-concentration or limit bio-availability.

SECTION - 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

LAND

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class & Division: 9

UN Number: 3082

Packing Group: III

SEA (IMDG)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class & Division: 9

UN Number: 3082

Packing Group: III

Marine Pollutant: Yes

Label(s): 9

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.
(Naphthalene), 9, PG III, MARINE POLLUTANT

AIR (IATA)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class & Division: 9

UN Number: 3082

Packing Group: III

Label(s) / Mark(s): 9, EHS

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.
(Naphthalene), 9, PG III

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SECTION 15 – REGULATORY INFORMATION

This material is 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

All the components of this material comply with the following national/regional chemical inventory requirements: AICS, DSL, IECSC, KECI, PICCS and TSCA.

SECTION 16 - OTHER INFORMATION

The information contained herein relates only to the specific material identified. This information is accurate and reliable on the date of this safety data sheet, but no warranty or representation is made as to the accuracy, reliability or completeness of information. It is offered solely for your consideration, investigation and verification. Before using this product, read all information provided.