

SAFETY DATA SHEET

(Compliant with EU CLP/REACH, GHS, WHMIS, EU DSD/DPD, OSHA HCS)

**MOCPL****OXIDIZED POLYETHYLENE WAX (ALL GRADES)**

ID: MOC-SDS-OPH-004

SECTION 01::IDENTIFICATION

PRODUCT NAME : MARCUS 3300, MARCUS 3400P, MARCUS 3400T, MARCUS 3500.
PRODUCT CODE : M 3300, M 3400P, M 3400T, M 3500.
CHEMICAL NAME & SYNONYMS : Oxidized Polyethylene Homopolymer, Oxidized Wax
PRODUCT USE : Textile Treatment, Mould Release, Additive for Fruit coatings, Polishing, PVC Lubricant in Plastics industry, Emulsion, Technical applications, etc.

MANUFACTURERS :**MARCUS OILS & CHEMICALS PVT. LTD. (MOCPL)**Vill: Kasberia, HPL Link Road, PO-Shibramnagar,
Haldia-721635,PurbaMedinipur, W.B., India.

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MOCPL (24Hrs.) : (+91) 9434704722

IN CASE OF EMERGENCY CALL :**Common Poisons Information Centre, AIIMS, New Delhi, India**

Tel. No.: +91 1126589391, +91 1126593677,

Fax:+911126588663

SECTION 02:: HAZARDS IDENTIFICATION

Emergency Overview: **Form** : Wax like solid in pellet, prill or powdery form.
Color : white
Odor :Mild wax like

Classification of the substance or mixture:

May form combustible dust-cloud i.e. dust concentrations in air (during handling or processing).

Regulation (EC) No 1272/2008: Product are not classified as dangerous according to Regulation(EC)No-1272/2008.**Directive 67/548/EEC** : This product is not classified as dangerous according to EU Directive 67/548/EEC.**Regulation (EC) No 1907/2006:** This product is compiled REACH Regulation (EC) No 1907/2006.
Products have low toxicity (acute oral > 2500 mg/kg).
Exposure limit for total product (threshold limit value): OSHA regulation
29 CFR 1910.1000 recommended by ACGIH -
5 mgms/m³ (respirable dust) 10 mgms/m³ (total dust)**Label elements** : Labeling according to Directive 67/548/EEC – latest revision : None.
Labeling according to Regulation (EC) 1272/2008 [GHS] : None.**GHS** : Not classified.**GHS Label elements, including precautionary statements :****Signal word** :Warning**Hazard statements** :May form combustible dust concentrations in air.**Precautionary statements** : **Prevention:**Use personal protective equipment as required.**Carcinogenicity** : No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.**Other hazards** : No other significant immediate health, physical, or environmental hazards are associated with these materials.

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SECTION 03 :: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Nature : Substance

CHEMICAL NAME OF INGREDIENT	CAS NUMBER	EC NUMBER	CONCENTRATION (WEIGHT %)
Oxidized Polyethylene	68441-17-8	E 914	100

SECTION 04 :: FIRST AID MEASURES

- SKIN EXPOSURE** : If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Remove could result in severe tissue damage. Get medical attention to prevent such burn injury.
- EYES EXPOSURE** : Rinse eyes with plenty of water. Remove contact lenses, if worn. Get immediate medical attention if irritation develops or continues.
- INHALATION** : Molten wax fumes may cause mild respiratory irritation. Powder may cause minor nuisance irritation. In that case move the exposed person to fresh air. If breathing is difficult give oxygen. Get medical attention if breathing difficulties continue.
- INGESTION** : Not a probable route of exposure. If person is conscious, rinse mouth with water. Do not induce vomiting unless directed to do so by a physician.
- SYMPTOMS** : **Immediate / Delayed:** No information on significant adverse effects.
- NOTES TO PHYSICIAN** : No specific advice other than above. Treat according to symptoms present in due accordance to standard medical practices.

SECTION 05 :: FIREFIGHTING MEASURES**FLAMMABILITY PROPERTIES:**(See Section 9 for details of Flammability Properties)

- Flammability & Classification** : Combustible solid
- Flash Point** : >255°C (491°F), Method: ASTM D-92
- Auto Ignition Temperature** : Not known
- Flammability Limits** : Upper /Lower: Not applicable

SUITABLE EXTINGUISHING AGENTS: Dry chemical Powder, foam, water fog or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Avoid using direct streams of water on molten/burning materials as product will float, spread and can re-ignite on the surface of the water stream.

HAZARDS DURING FIRE-FIGHTING: Avoid dust formation. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may form an explosion hazard. Move container from fire area if it can be done without risk. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust on floors and ledges. Floor could go slippery. Wax would burn to produce CO₂, CO & smoke with carbon particles.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, original product & other hydrocarbon oxidation products.

PROTECTIVE EQUIPMENT: Use a mask with universal filler. Use self-contained breathing apparatus (SCBA) approved by NIOSH and full protective clothing.

SPECIAL PRECAUTIONS/INSTRUCTIONS: High level of dust content static electricity may lead to explosions. See NFPA Bulletin 654. Watch footing on floors and stairs because of possible melting and spreading of material may be slippery. Use water spray/mist to keep area cool.

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SECTION 06 :: ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS** : Wear personal protective clothing and equipment, see Section 8.
Avoid inhalation and direct contact.
Evacuate personnel to safe areas.
Provide adequate ventilation.
Eliminate all ignition sources if safe to do so.
Accumulations of dust from this product may increase severity of an explosion. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
- ENVIRONMENTAL PRECAUTIONS:** Discharge into the environment must be avoided.
- CLEANUP** : Collect spilled material using a method that minimizes dust generation (e.g. wet methods, HEPA vacuum). Use only non-sparking tools. Allow to solidify and scrap up to clean. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.
- RELEASE RESPONSE** : Use good housekeeping practices since spilled material may be a slipping hazard. When dealing with high level of dust, keep away from heat, flame, and remove ignition sources. Collect material in a drum (may be fiberboard) or carbon using care to scatter as little dust as possible. May burn although not readily ignitable. Use caution judgment when cleaning up large molten spills. With small molten spills wear respirator and protective clothing as appropriate. Shut off source of leak if safe to do so. Dike and contain. Allow wax to cool and remove as solid.

SECTION 07 :: HANDLING AND STORAGE

- HANDLING :** Use with adequate ventilation.
Avoid dust formation.
Floors, walls and other surfaces must be regularly cleaned. Accumulations of dust should be removed from settling areas.
The material can accumulate static charge and can therefore cause electrical ignition. Static charges on powders or powders in liquids may ignite combustible atmospheres.
Take precautionary measures against static discharges.
Avoid spillage on floors as material can create slippery conditions.
Do not swallow.
Avoid breathing dust and breathing fumes from heating process.
Wear personal protective equipment to avoid contact with skin, eyes and clothing.
- ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:** All combustible solids have the potential to create dust explosion hazard. The likelihood of an explosion can be dependent upon many factors, such as the explosive characteristics of the material, the design of the facility, and the manner in which the material is handled. A more detailed discussion can be found in NFPA Bulletin 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids."
- STORAGE CONDITIONS:**
Store in a cool, dry, well-ventilated area or silo away from sources of heat, flame and sparks.
For storage and ordinary handling, general ventilation is adequate. Ventilate enclosed storage areas, such as trailers and railcars, before entering. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition & direct sunlight.
Protect from physical damage. Have emergency equipment for fires and spills readily available.
Avoid excessive heat. Store away from incompatible substances and do not store near strong oxidizing agents and amines.

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SECTION 08 :: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS :

Component Name	CAS Number	Regulation	Limit	Basis
Oxidized Polyethylene Wax	68441-17-8	ACGIH TWA:	10 mg/m3	ACGIH:US. ACGIH
		OSHA PEL:	15 mg/m3	OSHA-TRANS:US. (29 CFR 1910.1000)
		Z1A:US. OSHA	15 mg/m3	Table Z-1-A (29 CFR 1910.1000)
		Z3:US. OSHA	15 mg/m3	Table Z-3 (29 CFR 1910.1000)

PROTECTIVE MEASURES:

Ensure that eyewash stations and safety showers are close to the workstation location.
Do not swallow.
Avoid breathing dust and contact with skin, eyes & clothing.

ENGINEERING MEASURES:

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. Provide exhaust ventilation if dust is formed.
Use only in an area equipped with explosion proof exhaust ventilation.
Electrical equipment should be protected to the appropriate standard.
If formation of dust is observed, equipment has to be switched off, cleaned and serviced.

PERSONAL PROTECTIVE EQUIPMENT:

Skin/Body Protection: Wear heat protective long sleeve clothing if there is potential for contact with heated materials.

Hand Protection : When handling hot material, use heat resistant gloves

Eye Protection : Wear appropriate safety glasses with side-shields. Consult standard operating procedures/safety professional for advice. Use protective eye and face devices that comply ANSI Z87.11-1987.

Respiratory : In case of insufficient ventilation wear suitable respiratory equipment.
Use a NIOSH approved dust respirator, if dusty conditions prevail.
Use an organic vapor respirator when melting or conveying product.

Hygiene measures : Wash hands before breaks and at the end of workday.
Remove and wash contaminated clothing before re-use.
Keep working clothes separately.

Additional Recommendations: Not generally required.

SECTION 09 :: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White pastilles, flakes, prills, or powder.
Physical State : Solid.
Odor : Typical mild waxy odor.
Density : 0.97gm/cc (Test Method – ASTM D-127)
Bulk Density : 450 – 550 kg/m3
Solubility in Water : Negligible
pH : Not applicable.
Boiling Point : Not applicable.
Flash Point : >500°F(> 260°C)Method: ASTM D-92
Melting Point : 90°C -100°C (194°F - 212°F)
Vapor Pressure : Not applicable.
Vapor Density : Not applicable.
Evaporation Rate : Not applicable.

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SECTION 10 :: STABILITY AND REACTIVITY

- Stability** : Stable under recommended storage conditions.
- Condition to Avoid** : Heat, flames and sparks.
 Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
 Avoid exposure to temperatures exceeding recommended processing conditions. DO NOT heat without adequate ventilation.
 MOC should be contacted if questions arise concerning specific processing condition.
- Incompatible Material to Avoid:** May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. May react with free halogens.
- Dangerous decomposition Products:** Decomposes under fire-condition. Could result into small quantities of low molecular weight hydrocarbons, carbon oxides, Carbon monoxide, smoke & carbon particles. Combustible gases may be formed during thermal decomposition.
- Possibility of Hazardous reactions** : Hazardous polymerization does not occur.
- Hazardous polymerization products** : Hazardous polymerization will not occur.
- Reaction with Air** : Does not react with air or other common materials. However, could burn in air like any combustible substances.

SECTION 11 :: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY :

Chemical name	Route	Species	Acute Toxic Value
Oxidized Polyethylene	Oral	Rat	LD50>2500 mg/kg
	Inhalation (Dust)	Mouse	LC50 12000 mg/m3/3M

IRRITATING/CORROSIVE EFFECTS:

- Eye Irritation** : Prill/Dust particles may cause transient irritation from mechanical abrasion.
- Skin Irritation** : Not expected to cause skin irritation. Molten material may cause thermal burns.
- Inhalation** : Not a likely route of exposure. Process fumes/dust may cause irritation.
- Ingestion** : May cause a choking hazard if swallowed.

OTHER INFORMATIONS :

- Carcinogenic Effect** : International Agency for Research on Cancer (IARC): Group3
 NOT classifiable as to its carcinogenicity to humans.
- OTHER DATA** : No other data developed.
- Further information** : Note: Product dust may be irritating to eyes, skin and respiratory system. Thermal decomposition can lead to release of irritating gases and vapors. The molten product can cause burns.

SECTION 12 :: ECOLOGICAL INFORMATION

- Eco-toxicity** : No relevant studies identified. Eco toxicity is expected to be low based on the low water solubility of the product.
- Persistence and Degradability:** This material is not expected to be readily biodegradable.
- Bio-accumulative Potential** : Product is not likely to accumulate in biological organisms.
- Mobility in Soil** : This product has not been found to migrate through soils.
- Other adverse effects** : The product does not have any known adverse effects on the environment.

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SECTION 13 :: DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: This material may be recycled if unused or if it has not been contaminated, so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. Assuming conformity with applicable disposal regulations, preferred method of disposal is in closed containers of sufficient strength to eliminate leakage at approved incineration or chemical landfill waste disposal site in accordance with local regulations. Sewage disposal is discouraged.

RCRA: The unused product is not a RCRA hazardous waste if discarded. Products are organic in nature and not biodegradable. Discard unused material as non-hazardous organic solid waste. Dispose of product in an appropriate facility in compliance with local state and federal regulations.

Is the unused product a RCRA hazardous waste if discarded? No.

If yes, the RCRA ID number is : NA

OTHER DISPOSAL CONSIDERATIONS: Discard as non-hazardous organic solid waste.

The information offered here is for the product as shipped. Use or alteration to the product as mixing with other materials could significantly change the characteristics of the material, alter the RCRA classification and the proper disposal method.

SECTION 14 :: TRANSPORTATION INFORMATION

Regulatory information	UN number	Class	Packing group	Label	Additional information
DOT	Not regulated	Not classified	Not regulated	Not regulated	Not available
ADR / RID	Not regulated	Not classified	Not regulated	Not regulated	Not available
IMDG CODE	Not regulated	Not classified	Not regulated	Not regulated	Not available
ICAO / IATA	Not regulated	Not classified	Not regulated	Not regulated	Not available

Special precautions : Keep sealed and secure. Do not expose to heat.

Environmental hazards: Not a dangerous goods. Not considered marine pollutant. Also not considered environmentally hazardous.

For additional information on shipping regulations affecting this material, contact the information number mentioned in the first page.

SECTION 15 :: REGULATORY INFORMATION

US Toxic Substances Control Act : Products are on the TSCA Chemical Inventory.

European Inventory of Existing Commercial Chemical Substances (EINECS) :

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

EU Directives 67/548/EEC, 1999/45/EC and Regulation (EC) No 1272/2008 :

The product is not classified as dangerous for supply according to the Regulation (EC) No 1272/2008 and the EC directive 67/548/EEC and 1999/45/EC.

REACH: The reporting process for the product has been completed in accordance with the appropriate tonnage bands and registration deadlines as per REACH Compliances Regulations.

NFPA –USA : Health – 0, Flammability – 1, Reactivity – 0

Canada –WHMIS : This product is not Rated. However HMIS is met to the extent it meets NFPA.

Canada – DSL : This product is listed in DSL.

Japan. Kashin-Hou LawList: On the inventory, or in compliance with the inventory.

Korea. Toxic Chemical Control Law (TCCL) List: On the inventory, or in compliance with the inventory.

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Philippines: Toxic Substances, Hazardous & Nuclear Waste Control Act: In compliance with the inventory.**China. Inventory of Existing Chemical Substances :** On the inventory, or in compliance with the inventory.**SARA TITLE III:** This product is subject to SARA Title III reporting.

- Section 311/312** : Immediate/Acute Health (irritant): No SARA Hazards
Section 302 : Contains an extremely hazardous substance: NO
Section 313 : This product does not contain any toxic chemical listed under Sec.313 of the Emergency Planning and Community Right-To-Know Act of 1986.

FDA Status: The products comply with identity specified in 21CFR 172.888 and consequently meet the requirement(subject to the limitations and restrictions which are applicable in specific regulations) of the following:

21CFR 172.260	21CFR 175.320	21CFR 176.210	21CFR 177.2600
21CFR 175.105	21CFR 176.170	21CFR 176.1200	21CFR 177.200
21CFR 175.125	21CFR 176.180	21CFR 177.1210	21CFR 178.3570
21CFR 175.200	21CFR 177.1620	21CFR 177.3850	21CFR 179.45

SECTION 16 :: OTHER INFORMATION**MARCUS OILS& CHEMICALS PVT. LTD. quality assurance program certified by ISO 9001:: 2015.**

Refer to Marcus Oil & Chemical Regulatory Summary Sheet for further regulatory information.

MARCUS OILS& CHEMICALS PVT. LTD. Environmental Management system certified by ISO 14001 :: 2015.

Refer to Marcus Oil & Chemical Regulatory Summary Sheet for further regulatory information.

Other useful guides to handling organic powders include:

NFPA Recommended Practice on Static Electricity, standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids. Recommended Practice for the Classification of Combustible Dusts and of Hazardous(Classified) Locations for Electrical Installations in Chemical Process Areas.

OSHA 3371-08: Hazard Communication Guidance for Combustible Dusts.**CURRENT ISSUE DATE** : 01/2019**PREVIOUS ISSUE DATE** : 01/2018**Disclaimer of Liability:**

The data set forth in this SDS are typical values (not specifications) based on information provided by the suppliers of the raw materials used in the manufacture of the aforementioned products. Marcus Oil & Chemical makes no warranty with respect to the accuracy of the information provided by their suppliers and disclaims all liability of reliance thereof. Marcus Oil & Chemical warrants only that its products conform to their published specifications and no other express warranty is made with regard thereto. We do not guarantee favorable results and we assume no liability in connection with the use of these products. They are all intended for use by persons having technical skill and knowledge, at their own discretion and risk.

:: END OF DATA SHEET ::

For Marcus Oils & Chemicals Pvt. Ltd.

Chittaranjan Maity