

UNITED PERFORMANCE MATERIALS CORPORATION

13F-5, NO. 206, SEC. 2, NAN KING E.RD., TAIPEI, TAIWAN, R.O.C

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Material Safety Data Sheet

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

- Trade Name: FUCLEAR, Hydrogenated Hydrocarbon Resins
- REACH Registration Number: 01-2119510128-50-0005
- Manufacturer/Supplier: United Performance Materials Corporation
- Address: 13F-5, NO. 206, SEC. 2, NAN KING E.RD., TAIPEI, TAIWAN
- Telephone Number: +886-2-2507-2387
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SECTION 2: HAZARDS IDENTIFICATION

- Classification
 - Health: Not applicable
 - Environmental: Not applicable
 - Physical: Not applicable
- Labelling
 - Symbol: Not applicable
 - Signal word: Not applicable
 - Hazard statement: Not applicable
 - Precautionary statements: Keep away from heat/sparks/open flame. – No smoking.
Avoid dispersing dust and inhaling,

SECTION 3: COMPOSITION /INFORMATIN ON INGREDIENTS

- Substance /Mixture: Mixture
- Chemical Characterization: > 99% Hydrogenated Aromatic Hydrocarbon Resin.
< 1% Stabilizers
- CAS Number: 069430-35-9 / 88526-47-0
- Identification Number(s): Void (polymer)

SECTION 4: FIRST-AID MEASURES

- General information: No special measure required
- Eyes Contact: Rinse with eye open for several minutes under running water

- Skin Contact: Clean affected area with soap and plenty of water
- Inhalation: Supply fresh air ; Consult doctor in case of symptoms
- Swallowing: In case of persistent symptoms, consult doctor.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable extinguishing agents: Water spray, dry chemical
- Protective equipment: Self-contained breathing apparatus and protective clothing

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Person-release safety precautions: Not required
- Measures for environmental protection: No special measure required
- Measures for cleaning/collecting: Collect mechanically
- Additional information: No dangerous material is released

SECTION 7: HANDLING & STORAGE

◦ HANDLING

Information for safe handling: No special measures required.

Maximum oxygen content: Volatile vapor is too low to sustain combustion at present of ignition source in atmosphere.

Percentage volatile: Not volatile at room temperature.

Static electricity risk: Keep room dust-free, ground all mixing and handling equipment; keep work area clean and free of dust accumulation

Protection against explosions and fire: Minimize dust generation

◦ STORAGE

Requirements to be met by storerooms and container: No special requirements

Trade name: FUCLEAR, Hydrogenated Hydrocarbon Resins, softening point 90-150°C R&B

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep from contact with oxidants

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- Additional information about design of technical system: No further data; see section 7
- Personal protective equipment: Not required
- General protective and hygienic measures: The usual precautionary measures should be adhered to general rules for handling chemicals.
- Breathing equipment: Dust respirator
- Protection of hands: Not required
- Eyes protection: Not required

- Body protection: Protective work clothing

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

- Form: Solid
- Colour: Water white
- Odor: None

Change in condition	Value/Range	Unit	Method
Fusion temperature/range	95-145	°C	ASTM D3461
Flash point	232-280	°C	DIN ISO 2592
Ignition temperature	383-399	°C	DIN 51 794
Decomposition temperature	>250	°C	
Self-inflammability	Product is not self-igniting		
Danger of explosion	Dust can form explosive mixture with air		
Critical values for explosion			
Lower		15 g/m ³	
Vapor pressure	at 20 °C	<0.2 mbar	DIN 51 754
Density	at 20 °C	0.97-1.04 g/m ³	DIN 52 004
Solubility in /Miscibility with water	Insoluble		

SECTION 10: STABILITY & REACTIVITY

- Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications
- Dangerous reactions: No dangerous reaction known
- Dangerous products of decomposition: No dangerous decomposition product known

SECTION 11: TOXICOLOGICAL INFORMATION

- Acute toxicity: Not applicable
- Specific symptoms in biological assay LD50 (oral-rat): > 5 g/kg
- Primary irritant effect: Not applicable
- On the skin: No irritation effect
- On the eye: No irritation effect
- Sensitization: No sensitizing effect known
- Additional toxicological information

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

SECTION 12: ECOLOGICAL INFORMATION

- Ecotoxicological effects: No test
- Remark LD50(oral-rat): > 5 g/kg
- Note: Water hazard class 0 (German Regulation); Self-assessment: generally not hazardous for water

SECTION 13: DISPOSAL CONSIDERATION

- Product: **FUCLEAR**, Hydrogenated Hydrocarbon Resins
- Recommendation: Remove according to local authority recommendations, e.g. convey to licensed incinerator
- Uncleaned packaging Recommendation: Disposal must abide by official regulations

SECTION 14: TRANSPORT INFORMATION

- Keep away from source of ignition
- This object is not restricted by International Air Transport Association (IATA)
- Follow all regulations in your country

SECTION 15: REGULATORY INFORMATION

- Labeling according to EEC Directives / Ordinance on Hazardous Substances (Gef-StoffV) is not required.

SECTION 16: OTHER INFORMATION

◦ REFERENCES

- 1) G. Weiss: Hazardous chemicals data book 2nd.ED. Noyes Data Corporation. (1977)
- 2) Data of existing chemicals, TITI, Dec. 1 (1977)
- 3) Ergebnisse der untersuchung von 200 chemischen verbindungen auf acute fish-toxizitat mit dem goldorfentest, wasser und abwasser-forchung 11.(5)161~164 (1978)
- 4) Hand book of environmental Data on organic chemicals 2nd ed. 592(1983)

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