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Safety Data Sheet acc. to OSHA HCS Product name: 2',4'-Dihydroxy-2-(4-hydroxyphenyl)acetophenone Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. **Prevention of secondary hazards:** No special measures required. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data

Exposure controls

Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eves and skin

Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.

Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands:

Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

9 Physical and chemical properties

Information on basic physical and o General Information Appearance: Form: Odor: Odor threshold:	chemical properties Powder Not determined Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined

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_Sublimation temperature / start:	Not determined	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water Viscosity:): Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recon	mended storage conditions.	
Possibility of hazardous reactions R	to be avoided: Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents	
Conditions to avoid No further relevant	nt information available.	
Incompatible materials: Oxidizing age Hazardous decomposition products:	nts Carbon monoxide and carbon dioxide	
	·	
1 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for	classification: No data	
Skin irritation or corrosion: Causes s		
Eye irritation or corrosion: Causes se	erious eye irritation.	
Sensitization: No sensitizing effects ki		
Carcinogenicity: No classification data	orwn. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH	
Reproductive toxicity: No effects kno	WN.	
Specific target organ system toxicity	r - repeated exposure: No effects known.	
Aspiration hazard: No effects known	r - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effe	cts known.	
	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
Carcinogenic categories OSHA-Ca (Occupational Safety & He	alth Administration) Substance is not listed.	
12 Ecological information	· · · · · · · · · · · · · · · · · · ·	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant in	formation available	
Persistence and degradability No fur	her relevant information available.	
Bioaccumulative potential No further	relevant information available.	
Mobility in soil No further relevant info Additional ecological information:	rmation available.	
General notes:		
Do not allow undiluted product or large Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessme	nt	
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further relev	rant information available.	
13 Disposal considerations		
Waste treatment methods	en netienel vervulatione ta anno manen dianacal	
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be r	nade according to official regulations.	
14 Transport information		
14 Transport information UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA	Notanalianha	
Class Booking group	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
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