SUDARSHAN
Outshine. Outdo.

Novoperm Yellow HR-CN09

	First compiled on: 2004/11/09
Substance key: SXR002947	Revision Date: 2025/04/17
Version : 2 - 20 / CHI	Date of printing : 2026/05/09

1. PRODUCT AND COMPANY IDENTIFICATION

Trade name
Novoperm Yellow HR-CN09

Material number: 217712

Substance name: C.I. Pigment Yellow 83(Nanoform) resinated.

Use of the Substance/Mixture
Industry sector : Industrial Performance Chemicals
Type of use : Colouring agent

Identification of the company
Sudarshan Germany Horizons GmbH

Brüningstraße 50
65929 Frankfurt am Main
Telephone : +49 69 305 62 00

Information about the substance/preparation
Product Stewardship
E-mail address: SDS.PI.Europe@sudarshan.com

Emergency telephone number: +86 532-83889090 (For product with GHS classification (Qingdao NRCC))
+86 21 62126881 (For product without GHS classification (Shanghai office))

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	:	powder
Colour	:	yellow
Odour	:	not specified

Not a hazardous substance or mixture.

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Environmental hazards

Not classified based on available information.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 1.07 %

Other hazards which do not result in classification

Dust can form an explosive mixture in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Acetoacet-2,5-dimethoxy-4-chloroanilide	4433-79-8	>= 2.5 -< 10
Alcohols, C16-18, ethoxylated	68439-49-6	>= 1 -< 2.5

4. FIRST AID MEASURES

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Remove to fresh air.

In case of skin contact : IF ON SKIN: Wash with plenty of soap and water.

In case of eye contact : Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

If swallowed : If swallowed do not induce vomiting,seek medical advice and show safety datasheet or label

Most important symptoms and effects, both acute and delayed : No symptoms known currently.
No additional hazards are known except those derived from the labelling.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet Foam
Unsuitable extinguishing media	:	High volume water jet Carbon dioxide (CO2) Dry powder
Specific hazards during firefighting	:	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx) Hydrogen chloride Hydrogen cyanide (hydrocyanic acid)
Special protective equipment for firefighters	:	Self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable protective equipment.
Environmental precautions	:	The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	:	Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Use mechanical handling equipment. Treat recovered material as described in the section "Disposal considerations".
Prevention of secondary hazards	:	Keep away sources of ignition, stop running engines, no smoking. Moisten spilled material with water, cover with wet sand or wetted binder, then take up.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion	:	Take precautionary measures against static discharges. Keep away from heat and sources of ignition. Dust can form an explosive mixture in air.
Advice on safe handling	:	When used and handled appropriately no special measures are needed Avoid dust formation.
Avoidance of contact	:	None.

Storage

Further information on storage conditions	:	Keep container dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection	:	Wear dust mask when handling large quantities
Eye/face protection	:	Safety glasses
Skin and body protection	:	working clothes
Hand protection Remarks	:	Nitrile rubber gloves. Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective measures	:	Wear suitable protective equipment.
Hygiene measures	:	Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	yellow
Odour	:	not specified
Odour Threshold	:	not required
pH	:	approx. 6 (20 °C) Concentration: 100 g/l Aqueous slurry
Melting point	:	not determined
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Burning rate	:	0.78 mm/s GLP: no
Self-ignition	:	>= 220 °C Method: VDI 2263 (Grewer) GLP: no
Burning number	:	5 (20 °C) GLP: no Complete combustion with flames
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable

Relative vapour density	:	Not applicable
Relative density	:	no data available
Density	:	approx. 1.4 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	300 °C Heating rate: 3 K/min Decomposition energy (mass): 660 kJ/kg Method: DTA closed cup
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	no data available
Oxidizing properties	:	no data available
Impact sensitivity	:	Not impact sensitive.
Molecular weight	:	no data available
Metal corrosion rate	:	Not applicable
Minimum ignition energy	:	3 - 6 mJ with inductive electrical resistance 6 - 13 mJ without inductive electrical resistance
Particle size	:	2 µm Method: Laser diffraction with dispersion in dry air.

10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	None known. Stable
Conditions to avoid	:	None known.
Incompatible materials	:	None.
Hazardous decomposition products	:	This product contains a diarylide pigment. This product should not be used in polymers if the processing temperature exceeds 200 °C because of possible thermal decomposition, which can form e.g. traces of aromatic amines. 3,3'-Dichloro-benzidine may be formed at temperatures above 200 °C.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (rat (female)): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes Remarks: Test conducted with a similar formulation.
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	Remarks: no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Acute oral toxicity	:	LD50 (Rat, male and female): 850 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	Remarks: no data available

Skin corrosion/irritation

Product:

Remarks : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Serious eye damage/eye irritation

Product:

Remarks : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : yes

Alcohols, C16-18, ethoxylated:

Result : Irritating to eyes.

Respiratory or skin sensitisation

Product:

Remarks : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.
GLP : yes

Assessment : Harmful if swallowed.

Alcohols, C16-18, ethoxylated:

Assessment : Causes serious eye irritation.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity - Assessment : No information available.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: no

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Product:

Carcinogenicity - Assessment : No information available.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Carcinogenicity - Assessment : No information available.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Reproductive toxicity - Assessment : No information available.

STOT - single exposure

Product:

Remarks : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Remarks : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Species	:	Rat, male and female
NOEL	:	20 mg/kg bw/day
Application Route	:	oral (gavage)
Exposure time	:	29 d
Number of exposures	:	daily
Method	:	OECD Test Guideline 407
GLP	:	yes

Repeated dose toxicity - Assessment : Harmful if swallowed.

Alcohols, C16-18, ethoxylated:

Repeated dose toxicity - Assessment : Causes serious eye irritation.

Aspiration toxicity

Product:

no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

No aspiration toxicity classification

Further information

Product:

Remarks : no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 22 - 50 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test

Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 33 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 110 mg/l
End point: Growth rate
Exposure time: 16 h
Test Type: static test
Method: DIN 38 412 Part 8
GLP: no data available

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Alcohols, C16-18, ethoxylated:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Persistence and degradability

Product:

Biodegradability : Remarks: no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Biodegradability : aerobic
Inoculum: activated sludge, non-adapted

Concentration: 50 mg/l
Biochemical Oxygen Demand (BOD)
Result: Not readily biodegradable.
Biodegradation: 62 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Partition coefficient: n-octanol/water : log Pow: 1.74 (23 °C)
pH: 6 - 8
Method: OECD Test Guideline 107

Mobility in soil

no data available

Other adverse effects

Product:

Environmental fate and pathways : Remarks: no data available

Additional ecological information : no data available

Components:

Acetoacet-2,5-dimethoxy-4-chloroanilide:

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : This material and its container must be disposed of in a safe way.

14. TRANSPORT INFORMATION

IATA	not restricted
IMDG	not restricted
TDG_CN	not restricted
RID	not restricted

15. REGULATORY INFORMATION

National regulatory information

GB13690: General rule for classification and hazard communication of chemicals
Decree No. 591 of the State Council of the People's Republic of China: Regulations on the Control over Safety of Hazardous Chemicals.
GB 6944-2012: Classification and code of dangerous goods.
GB 12268-2012: List of dangerous goods.
GB 190-2009: Packing symbol of dangerous goods.
GB 30000.2~29 – 2013 , Rules for classification and labelling of chemicals.
Law of the People's Republic of China on Prevention and Control of Occupational Diseases (Amended in 2011).

Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number : 190695-7

16. OTHER INFORMATION

Revision Date : 2025/04/17

Further information

Other information : Observe national and local legal requirements

Date format : yyyy/mm/dd

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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