CELSTRAN® POM-GF25/SF4-02 AD3002 BLAC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	2023/01/20	000000034750	Date of first issue: 2019/05/02

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CELSTRAN® POM-GF25/SF4-02 AD3002 BLAC

Product code : 000000000020004157

Manufacturer or supplier's details

Company : Celanese (Shanghai) International Trading Co., Ltd
赛拉尼斯(上海)国际贸易有限公司

Address : 4560 Jinke Road, Zhangjiang, Pudong
Shanghai, China 201210

Telephone : 86-21-38619288

Emergency telephone number : CHEMTREC International phone number: +1-703-527 3887,
+86 532 8388-9090 (China, 24h)

E-mail address : HazCom@celanese.com

Recommended use of the chemical and restrictions on use

Recommended use : Plastic processing industry

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance : pellets
Odour : slight

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 acute oral toxicity: 4 %
The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 4 %
The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 4 %
The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 4 %

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
formaldehyde	50-00-0	<= 0.02
formaldehyde	50-00-0	>= 25 -< 30
glass, oxide, chemicals	65997-17-3	>= 20 -< 30
1,3-dioxolane	646-06-0	>= 0.3 -< 1

4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Cool skin rapidly with cold water after contact with molten material.
Do not peel solidified product off the skin.
Burns must be treated by a physician.

In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and : None known.

delayed

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water
Foam
Dry chemical
Carbon dioxide (CO2)

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.

Hazardous combustion products : Formaldehyde

Carbon oxides

Specific extinguishing methods : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

During processing, dust may form explosive mixture in air.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the

application area.
Minimize dust generation and accumulation.

Avoidance of contact : Not applicable

Storage

Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
Keep in a dry, cool place.
Maintain dryness of resin

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
formaldehyde	50-00-0	MAC	0.5 mg/m3	CN OEL
	Further information: G1 - Carcinogenic to humans, Sensitizing			
		TWA	0.1 ppm	ACGIH
		STEL	0.3 ppm	ACGIH
formaldehyde	50-00-0	MAC	0.5 mg/m3	CN OEL
	Further information: G1 - Carcinogenic to humans, Sensitizing			
		TWA	0.1 ppm	ACGIH
		STEL	0.3 ppm	ACGIH
glass, oxide, chemicals	65997-17-3	TWA (fibres)	1 fibres per cubic centimeter	ACGIH
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (fibres)	1 fibres per cubic centimeter	ACGIH
		TWA (fibres)	1 fibres per cubic centimeter	ACGIH
1,3-dioxolane	646-06-0	TWA	20 ppm	ACGIH

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye/face protection	:	Safety glasses
Skin and body protection	:	Protective suit
Hygiene measures	:	General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	pellets
Odour	:	slight
Flash point	:	Not applicable
Vapour pressure	:	not determined
Density	:	1.4 - 1.8 g/cm³ (20 °C)
Solubility(ies)		
Water solubility	:	insoluble
Auto-ignition temperature	:	For further information, refer to the product technical data sheet.

10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.
Conditions to avoid	:	No data available
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

formaldehyde:

Acute oral toxicity	:	LD50 (Rat, male): 460 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	270 mg/kg

formaldehyde:

Acute oral toxicity	:	LD50 (Rat, male): 460 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	270 mg/kg

1,3-dioxolane:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 68.4 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403

Skin corrosion/irritation

Not classified based on available information.

Components:

formaldehyde:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive

formaldehyde:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive

1,3-dioxolane:

Species	:	Rabbit
Method	:	16 CFR 1500.41
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

formaldehyde:

Species	:	Rabbit
Result	:	Corrosive
Method	:	OECD Test Guideline 405

formaldehyde:

Species	:	Rabbit
Result	:	Corrosive
Method	:	OECD Test Guideline 405

1,3-dioxolane:

Species	:	Rabbit
Result	:	Eye irritation
Method	:	16 CFR 1500.42

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

formaldehyde:

Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	May cause sensitisation by skin contact.

formaldehyde:

Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	May cause sensitisation by skin contact.

1,3-dioxolane:

Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

formaldehyde:

Genotoxicity in vivo : Species: Rat
Method: Mutagenicity (micronucleus test)
Result: negative

formaldehyde:

Genotoxicity in vivo : Species: Rat
Method: Mutagenicity (micronucleus test)
Result: negative

1,3-dioxolane:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Metabolic activation: without metabolic activation
Method: Regulation (EC) No. 440/2008, Annex, B.21
Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test
Species: Mouse
Method: OECD Test Guideline 478
Result: negative

Test Type: Micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

1,3-dioxolane:

Species : Rat

Application Route	:	Oral
Result	:	No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Not classified based on available information.

Components:

formaldehyde:

Effects on foetal development	:	Species: Mouse Application Route: Oral Result: no adverse developmental effects

formaldehyde:

Effects on foetal development	:	Species: Mouse Application Route: Oral Result: no adverse developmental effects

1,3-dioxolane:

Effects on foetal development	:	Species: Rabbit Application Route: Oral Teratogenicity: NOEL: 49.99 mg/kg bw/day Method: OECD Test Guideline 414 Result: Developmental effects
Reproductive toxicity - Assessment	:	Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks	:	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

formaldehyde:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 6.7 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): 5,800 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	(Desmodesmus subspicatus (green algae)): Method: OECD Test Guideline 201 EC50 (Scenedesmus quadricauda (Green algae)): 4.89 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

formaldehyde:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 6.7 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): 5,800 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	(Desmodesmus subspicatus (green algae)): Method: OECD Test Guideline 201 EC50 (Scenedesmus quadricauda (Green algae)): 4.89 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

1,3-dioxolane:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 95.4 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 772 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): > 877 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 h Test Type: activated sludge Method: OECD Test Guideline 209

Persistence and degradability

Components:

formaldehyde:

Biodegradability : Inoculum: Fresh water
Result: Readily biodegradable.
Method: OECD Test Guideline 301C

formaldehyde:

Biodegradability : Inoculum: Fresh water
Result: Readily biodegradable.
Method: OECD Test Guideline 301C

1,3-dioxolane:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

formaldehyde:

Bioaccumulation : Bioconcentration factor (BCF): 0.4
Remarks: Does not significantly accumulate in organisms.

formaldehyde:

Bioaccumulation : Bioconcentration factor (BCF): 0.4
Remarks: Does not significantly accumulate in organisms.

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

Components:

formaldehyde:

Results of PBT and vPvB assessment : The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

formaldehyde:

Results of PBT and vPvB : The substance does not meet the criteria for PBT / vPvB

assessment | according to REACH, Annex XIII

1,3-dioxolane:

Results of PBT and vPvB assessment : The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Where possible recycling is preferred to disposal or incineration.
Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

IATA-DGR

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable

IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number : 新简登 T-181630(变 1)
新简登 T-181852
新简登 T-181631

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

16. OTHER INFORMATION

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CN OEL	:	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CN OEL / MAC	:	Maximum allowable concentration

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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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