

## SAFETY DATA SHEET

according to the Globally Harmonized Systemand US regulation

# Levasil CS40-120

Version 2 Revision Date 01/14/2021 Print Date 07/29/2021 US / Z8

#### 1. IDENTIFICATION

Product name : Levasil CS40-120

Product Use Description : Specific use(s): Inorganic binder, surface modifier

and flocculating agent.

Company : Nouryon Pulp and Performance

Chemicals LLC

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US

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6666

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

Appearance	Clear liquid	
Color	clear, cloudy	
Odor	slight	

## **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

## Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP : No component of this product present at levels greater than or

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equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name : Amorphous Silica, aqueous colloidal solution.

Pure substance/mixture : Mixture

## Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration [% W/W]
silicon dioxide	7631-86-9		>= 30 - < 50

Actual concentration is withheld as a trade secret

#### 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

Inhalation : If breathed in, move person into fresh air.

If symptoms persist, call a physician.

Skin contact : Remove contaminated clothing and shoes.

Rinse with water.

Eye contact : Rinse with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

Ingestion : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person.

Notes to physician

Symptoms : No information available.

Risks : No information available.

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during fire fighting / Specific hazards arising from the chemical

: No hazards to be specially mentioned.

Combustion products : No hazardous combustion products are known

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.

See also Section 9. Physical and chemical properties: Safety data

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions : No conditions to be specially mentioned.

Emergency measures on

accidental release

: Follow safe handling advice and personal protective

equipment recommendations.

Environmental precautions : No special environmental precautions required.

Methods for cleaning up / Methods for containment

: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

If liquid has been spilt in large quantities clean up promptly by

scoop or vacuum.

Reference to other sections : For disposal considerations see section 13.

For personal protection see section 8.

## 7. HANDLING AND STORAGE

Handling

Advice on safe handling : For personal protection see section 8.

No special handling advice required.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Storage

Requirements for storage

areas and containers

: Keep container tightly closed in a dry and well-ventilated

place.

Keep away from direct sunlight.

Advice on common storage : No special restrictions on storage with other products.

Minimum storage temperature:

: Avoid temperatures below:

5 °C (41 °F)

Maximum storage

temperature:

: 35 °C (95 °F)

Other data : No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 /%SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL
		PEL	6 mg/m3	CAL PEL

Engineering measures : Effective exhaust ventilation system

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : PVC

Material : Rubber gloves

Eye protection : Safety glasses

Hygiene measures : General industrial hygiene practice.

**Environmental exposure controls** 

General advice : No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear liquid

Color : clear, cloudy

Odor : slight

Odor Threshold : No data available

pH : 9 - 11

Melting point/range : 32 °F / 0 °C

Boiling point/boiling range : 212 °F / 100 °C

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : The product is not flammable.

Self-ignition : Not applicable

Upper explosion limit / Upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Vapor pressure : ca. 23 hPa (68 °F / 20 °C)

Relative vapor density : No data available

Relative density : 1.20 - 1.40

Solubility(ies)

Water solubility : dispersible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

Not applicable

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : < 50 mPa.s

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Not classified as oxidizing.

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

## 10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid allowing solution to dry as this can lead to a build-up of

dust.

Materials to avoid : Copper

Mild steel Aluminum

Hazardous decomposition

products

: No hazardous decomposition products are known.

Thermal decomposition : No data available

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Hazardous reactions : No dangerous reaction known under conditions of normal use.

## 11. TOXICOLOGICAL INFORMATION

## PRODUCT INFORMATION:

**Hazard Summary** 

Acute toxicity : Not classified based on available information.

Skin corrosion/irritation : Not classified based on available information.

Serious eye damage/eye

irritation

tion

Respiratory or skin sensitization

Respiratory sensitization: Not classified based on available

information.

Skin sensitization: Not classified based on available

Not classified based on available information.

information.

Germ cell mutagenicity : Not classified based on available information.

Carcinogenicity : Not classified based on available information.

Reproductive toxicity : Not classified based on available information.

STOT-single exposure : Not classified based on available information.

STOT-repeated exposure : Not classified based on available information.

Aspiration hazard : Not classified based on available information.

**Potential Health Effects** 

Inhalation : May cause respiratory tract irritation.

Skin : Causes mild skin irritation.

Eyes : May cause eye irritation.

Ingestion : May cause irritation of the mucous membranes.

Aggravated Medical

Condition

None known.

Symptoms of Overexposure : No information available.

**Toxicology Assessment** 

Further information : Information given is based on data on the ingredients and the

toxicology of similar products.

Test result

Acute oral toxicity : LD50: > 5,000 mg/kg

Species: Rat

The value is estimated from tests on similar products.

Sensitization : Result: Did not cause sensitization on laboratory animals.

Method: (Magnusson-Kligman):

The value is estimated from tests on similar products.

Germ cell mutagenicity

Genotoxicity in vitro : Ames test

Result: negative

Method: OECD Test Guideline 471

The value is estimated from tests on similar products.

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

#### TOXICOLOGY DATA FOR THE INGREDIENTS:

Test result

Component: silicon dioxide

Acute oral toxicity : LD50: > 10,000 mg/kg

Species: Rat

## 12. ECOLOGICAL INFORMATION

## PRODUCT INFORMATION:

**Ecotoxicology Assessment** 

Additional ecological

: None known.

information

Test result

**Ecotoxicity effects** 

Toxicity to fish : LC50: > 5,000 mg/l

Exposure time: 96 h

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Species: Danio rerio (zebra fish)

The value is estimated from tests on similar products.

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 7,600 mg/l Exposure time: 48 h

Species: Ceriodaphnia dubia (water flea)

The value is estimated from tests on similar products.

Toxicity to algae NOEC: 60 mg/l

Exposure time: 48 h

Species: Selenastrum capricornutum (green algae) The value is estimated from tests on similar products.

EC50: 120 mg/l Exposure time: 48 h

Species: Selenastrum capricornutum (green algae) The value is estimated from tests on similar products.

EC10: 140 mg/l Exposure time: 48 h

Species: Selenastrum capricornutum (green algae) The value is estimated from tests on similar products.

## Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is not expected.

Mobility : No test results

Under extreme circumstances, transport from earth to water

may take place.

Distribution among

environmental compartments

Remarks: Transport to air is not expected.

Biodegradability : Result: Not applicable

inorganic

#### Further information on ecology

Biochemical Oxygen

: No data available

Demand (BOD)

#### Hazardous to the ozone layer

: 40 CFR Protection of Environment; Part 82 Protection of Regulation

> Stratospheric Ozone - CAA Section 602 Class I Substances This product neither contains, nor was manufactured with a

Remarks

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

#### **COMPONENTS:**

#### **Ecotoxicology Assessment**

#### Component: silicon dioxide

Additional ecological

information

: No data available

## 13. DISPOSAL CONSIDERATIONS

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

#### 14. TRANSPORT INFORMATION

#### **International Regulations**

#### ADR

Not regulated as a dangerous good

#### **UNRTDG**

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

## Further information for transport

Not classified as dangerous in the meaning of transport regulations.

## **Domestic regulation**

## 49 CFR

Not regulated as a dangerous good

TDG

Not regulated as a dangerous good

NOM-002-SCT

Not regulated as a dangerous good

## 15. REGULATORY INFORMATION

#### **Notification status**

TCSI : YES. On the inventory, or in compliance with the inventory
TSCA : YES. All substances listed as active on the TSCA inventory
AICS : YES. On the inventory, or in compliance with the inventory
DSL : YES. All components of this product are on the Canadian DSL
ENCS : YES. On the inventory, or in compliance with the inventory
ISHL : YES. On the inventory, or in compliance with the inventory
KECI : YES. On the inventory, or in compliance with the inventory

PICCS : YES. On the inventory, or in compliance with the inventory IECSC : YES. On the inventory, or in compliance with the inventory NZIoC : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviations, see section 16.

#### **TSCA list**

TSCA 5(a)(2) : No substances are subject to a Significant New Use Rule.
TSCA 12(b) : No substances are subject to TSCA 12(b) export notification

requirements.

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### **16. OTHER INFORMATION**

#### Full text of other abbreviations

CAL PEL : California permissible exposure limits for chemical

contaminants (Title 8, Article 107)

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3

Mineral Dusts

CAL PEL / PEL : Permissible exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA Z-3 / TWA : 8-hour time weighted average

AllC - 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; 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

#### **Further information**

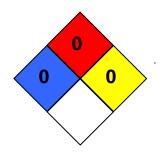
**HMIS Classification** : Health Hazard: 0

Chronic Health Hazard: /

Flammability: 0 Physical hazards: 0

NFPA Classification : Health Hazard: 0

Fire Hazard: 0 Reactivity Hazard: 0



#### Notification status explanation

TCSI Taiwan Chemical Substance Inventory (TCSI)

TSCA United States TSCA Inventory

AICS Australia Inventory of Chemical Substances (AICS)

DSL Canadian Domestic Substances List (DSL)

ENCS Japan. ENCS - Existing and New Chemical Substances Inventory

ISHL Japan. ISHL - Inventory of Chemical Substances
KECI Korea. Korean Existing Chemicals Inventory (KECI)

PICCS Philippines Inventory of Chemicals and Chemical Substances

(PICCS)

IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

NZIoC New Zealand. Inventory of Chemical Substances

#### **Further information**

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