

ORGACYL™

CNT solventborne dispersions

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product identifier used on the label: ORGACYL™ NMP2313

Other means of identification: Carbon/NMP mixture
Solvent-based nanoform dispersion

REACH Registration Number (RRN): /

Belgium Nanoregister Number: Please consult Nanocyl S.A.

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Manufacturing, for Industrial use only.

Identified Uses: Formulation of preparations; Loading and unloading of substance and mixtures; Use in industrial chemical processes; Use in laboratories; Use in coatings.

Prohibited uses: Cosmetics; Toiletries; Personal care products;
Carrier solvent (or excipient) in veterinary medicines/drugs;
Pharmaceutical excipient

1.3 Details of the supplier of the safety data sheet

Manufacturer: Nanocyl S.A.
Rue de l'Essor, 4 - B-5060 Sambreville - Belgium

Phone: + 32 71 750 380 (office hours) - Fax: + 32 71 750 390

E-mail: info@nanocyl.com

1.4 Emergency telephone number

Phone: + 32 71 750 380 (office hours, English and French)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin irritation Category 2

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Eye irritation
Reproductive toxicity (Unborn child)
Specific Target Organ systemic Toxicity - Single Exposure

Category 2
Category 1B
Category 3

2.1.2 Additional information: None.

2.2 Label elements



* Pictograms:

* Signal word: Danger.

* Hazard statements:

H360D	May damage the unborn child.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

* Precautionary statements:

P201	Obtain special instructions before use.
P261	Avoid breathing fume/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	If exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards

If the product is dried, dust may form explosive mixture with air. See also Sections 6, 7 and 8.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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Substances	EC Number / List number/ Index number	CAS Number	Reach Registration Number	% (wt.)	Classification
N-Methyl-2-pyrrolidone (NMP)	212-828-1 606-021-00-7	872-50-4	01-2119472430-46	> 90	GHS08 GHS07 H315 H319 H335 H360D H335: C≥10%
<i>Short tangled Multi-walled carbon nanotubes (MWCNTs) obtained by catalytic chemical vapour deposition -Synthetic graphite in tubular shape</i>	- / -	-	-	~ 3	-

For full text of GHS pictograms, Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

After skin contact:	In case of contact with product, remove contaminated clothing. Rinse immediately thoroughly with soap and plenty of water. If irritation develops and persists, consult a physician.
Eye contact:	Remove contact lenses. Hold the eyes open and rinse with water for a sufficiently long period of time (at least 15 minutes). Obtain medical attention if pain, blurred vision, swelling, burning or redness persists.
After inhalation:	If vapours are inhaled, move the person into fresh air, keep warm and allow to rest. If breathing is difficult, oxygen may be administered and medical attention should be obtained.
Ingestion:	Rinse out mouth with water. Never give anything to drink or swallow to an unconscious person. Do not induce vomiting without medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed: See also Section 2.

Vapours may cause irritation of the eyes, nose and throat as well as CNS depression (fatigue, dizziness, loss of concentration, with collapse, coma and death possible in cases of severe overexposure). High vapour concentrations may be irritating to the upper respiratory tract.

Repeated contact with the skin may cause it to become dry and cracked.

4.3 Indication of any immediate medical attention and special treatment needed:

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Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable media: Water fog, Foam, Carbon Dioxide, Dry Chemical.
Unsuitable media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards: Releases flammable vapours when heated above flash point. Vapours can be heavier than air.
Combustion products: May form toxic fumes, carbon monoxide, carbon dioxide, nitrogen oxides, metal oxides.

5.3 Advice for firefighters

Protective equipment's: Wear self-contained breathing apparatus. Wear suitable protective clothing.
Further information: Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure that there are sufficient retaining facilities for media used to extinguish fire.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Equip cleanup crew with proper protection (see chapter 8).

Avoid contact with skin, eyes and clothing.

Special danger of slipping by leaking/spilling product.

Immediately wipe up any spills to avoid dust formation. Do not inhale aerosols or dehydrated product.

6.2 Environmental precautions:

Stop leak if safe to do so. Contain spilled product. Collect for disposal.

Discharge into the environment must be avoided. Do not allow to enter into surface water or drains. Avoid discharge to sewers and biological waste water treatment plants.

Do not allow to enter into soil/subsoil. Promptly shovel and dispose of contaminated soil to prevent further infiltration through soil.

6.3 Methods and material for containment and cleaning up:

Collect in closed and suitable containers for disposal. Dispose as hazardous waste.

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- Small spills: Clear spills immediately to avoid dust formation. Wipe up with absorbent material (eg. cloth, fleece). Damp sweep any residues.
- Large spills: Soak up inert absorbent (eg. clay, sand,...) and dispose as waste requiring special attention. Wash carefully any residues.
- Dried up product: Do not brush or use compressed air to avoid dust formation. Wet clean or vacuum up solids. Use approved industrial vacuum cleaner for removal. Recommended: High efficiency particulate air filter (HEPA filter).

6.4 Reference to other sections: See Sections 8 and 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid spilling the product, as it might cause falls.

Prevent aerosol formation or splashes. Avoid dust formation when the product dries up.

Contact with skin and eyes must be avoided under all circumstances. Handle in accordance with good industrial hygiene and safety procedures.

Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original closed container in a dedicated place. Keep containers in a cool, dry place with adequate ventilation. Keep away from open flames and high temperature. Take measures to prevent the build-up of electrostatic charge. Moisture sensitive.

Storage class (Germany): 6.1 C

7.3 Specific end use(s):

Uses of NMP by Industrial workers: Formulation of preparations; Loading and unloading of substance and mixtures; Use in industrial chemical processes; Use in laboratories; Use in coatings.

SECTION 8. Exposure controls / Personal protection

8.1 Control parameters

Apply technical measures to comply with the Occupational Exposure Limits. The Occupational Exposures Limits values are country or region specific. Please check which values are applicable at your workplace.

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N-Methyl-2-pyrrolidone (1) CAS 872-50-4	Limit value - 8 hours		Limit value - Short term		Notes
	ppm	mg/m³	ppm	mg/m³	
Australia	25	103	75	309	
Austria	10	40	20	80	
Belgium	10	40	20	80	
Canada - Ontario		400			
Denmark	5	20	10	40	
European Union	10	40	20 (1)	80 (1)	Bold-type: Indicative Occupational Exposure Limit Values and Limit Values for Occupational Exposure Binding Occupational Exposure Limit Value - BOELV ~ (1) 15 minutes average value
Finland	10	40	20 (1)	80 (1)	(1) 15 minutes average value
France	10	40	20	80	Italics type: Indicative statutory limit values

N-Methyl-2-pyrrolidone (2) CAS 872-50-4	Limit value - 8 hours		Limit value - Short term		Notes
	ppm	mg/m³	ppm	mg/m³	
Germany (AGS)	20 (1)	82 (1)	40 (1)(2)	164 (1)(2)	(1) Inhalable aerosol and vapour (2) 15 minutes reference period
Germany (DFG)	20 (1)	82 (1)	40 (1)(2)	164 (1)(2)	(1) Inhalable fraction and vapour (2) 15 minutes reference period
Ireland	10	40	20 (1)	80 (1)	(1) 15 minutes reference period
Italy	10	40	20	80	skin
Japan - JSOH	1	4			
Latvia		100			
New Zealand	25	103	75	309	
Poland		40		80	
Romania	10	40	20 (1)	80 (1)	(1) 15 minutes average value
Spain	25	103	75	309	skin
Sweden	10	40	20 (1)	80 (1)	(1) 15 minutes average value
Switzerland	20	80	40	160	
The Netherlands		40		80	
Turkey	10	40	20 (1)	80 (1)	(1) 15 minutes average value
United Kingdom	10	40	20 (1)	80 (1)	(1) 15 minutes average value

Worker biological exposure monitoring

Monitored substance	CAS nr of Control parameter	Name of Control parameter	Sampling	Concentration
NMP	872-50-4	5-hydroxy-N-méthyl-2-pyrrolidone	Urinary, end of shift	100 mg/l

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Derived No Effect Levels (DNEL) for NMP

Downstream user	Exposure route	Exposure duration	Effects	DN(M)EL
Workers	inhalation	long term	local	40 mg/m ³
Workers	inhalation	long term	systemic	14,4 mg/m ³
Worker	dermal	long term	systemic	4,8 mg/kg bw
General population	inhalation	long term	local	4,5 mg/m ³
General population	inhalation	long term	systemic	3,6 mg/m ³
General population	dermal	long term	systemic	2,4 mg/kg bw

Predicted No Effect Levels (PNEC) for NMP

Compartment	PNEC
Freshwater	0,25 mg/l
Freshwater sediment	1,09 mg/kg dw
Intermittent release	5 mg/l
Marine water	0,025 mg/l
Marine water sediment	0,109 mg/kg dw
Sewage Treatment Plant	10 mg/l
Soil	0,07 mg/kg dw
Air	-
Secondary poisoning	-

Derived No Effect Level (DNEL) for MWCNT (similar product) – Inhalation - long term exposure of workers: 0.05 mg/m³

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Measures to prevent aerosol and dust generation:

Do not allow uncontrolled product dry up. Avoid aerosol formation in open systems without suitable ventilation and/or extraction. At high temperatures, use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Organisational measures to prevent exposure: See Section 7. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and leaving work.

Technical measures to prevent exposure: Provide local exhaust ventilation to keep the air concentrations below the recommended exposure limits. Facilities storing or using this material should be equipped with an eyewash facility.

8.2.2 Personal protection equipment:

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8.2.2.1 Eye and face protection:

Wear chemical goggles or safety glasses.

The selected goggles or glasses must satisfy the European norm standard EN 166.

8.2.2.2 Skin protection:

Hand protection: Wear chemical-resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. Recommended: butyl rubber.

Body protection: Wear protective clothing as required to avoid contact. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Use PPE that is chemical resistant to the product and prevents skin contact.
Recommended: The selected protective clothing has to satisfy the standard EN 13034, which describes clothing offering limited 8 hours protection against splashes.

8.2.2.3 Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Wear a half mask respirator conforming to EN 140 with type A and P3 filter or better.

8.2.2.4 Thermal hazards:

The product generates flammable vapour when heated up.

8.2.3 Environmental exposure controls:

Collect for disposal.

Avoid discharge to natural waters, sewers and biological waste water treatment plants.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Black liquid, solvent-based dispersion of nanomaterial
Odour/Odour threshold:	Slight amine odour
pH:	6 - 8
Solubility in water:	Mixable
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	> 200°C (estimated)
Flash point:	> 91°C (closed cup, estimated)
Decomposition temperature:	> 300°C
Smouldering temperature:	No data available.
Auto-ignition temperature:	245°C at 1013 hPa (estimated)
Evaporation rate	No data available.
Viscosity:	No data available.
Vapour pressure:	0,32-0,4 hPa at 20°C (estimated)

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Vapour density:	No data available.
Relative density:	~1 at 20°C (estimated)
Flammability (solid, gas):	Not fulfilling GHS/CLP criteria.
Oxidising properties	Not fulfilling GHS/CLP criteria.
Explosive properties	Not fulfilling GHS/CLP criteria.

9.2 Other information

Bulk density: Not applicable.

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10. Stability and reactivity

10.1 Reactivity: No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability: Stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions: Hazardous polymerization will not occur.

10.4 Conditions to avoid: Avoid exposure to moisture. Avoid mist/vapour/fumes formation. Keep away from heat, sparks, flames and other ignition sources.

10.5 Incompatible materials: Strong oxidizing materials. Strong acids. Nitric acid. Water.

10.6 Hazardous decomposition products: No hazardous decomposition products known at room temperature (see also Section 5.2).

SECTION 11. Toxicological information

No data available on the product itself. All MWCNT data have been gathered on a similar material (read-across)

Acute toxicity:

Test material	Route of exposure	LD50
MWCNT	Oral	> 5000 mg/kg
NMP	Oral	4,150 mg/kg
MWCNT	Dermal	> 2000 mg/kg
NMP	Dermal	> 5000 mg/kg
NMP	Inhalation	> 5.1 mg/l

Skin corrosion/irritation - Serious eye damage/irritation:

Test material	Organ	Result
MWCNT	skin	Not irritant
NMP	skin	Irritant

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MWCNT	eye	Not irritant
NMP	eye	Irritant

Respiratory or skin sensitization:

Test material	Route of exposure	LD50
NMP (read-across)	Dermal (OECD 426)	Not sensitizer

Germ cell mutagenicity:

Test material	Method	Result
MWCNT	<i>In vitro</i>	Negative
NMP	<i>In vitro</i> (OECD 476)	Negative
NMP	<i>In vitro</i> (OECD 471)	Negative
NMP	<i>In vitro</i> (OECD 482)	Negative
NMP	<i>In vivo</i> (OECD 474)	Negative
NMP	<i>In vivo</i> (OECD 475)	Negative

Carcinogenicity:

Test material	Exposure	Species	Result
MWCNT	2-years, intraperitoneal	rat	No carcinogenic response
NMP	2-years, oral 2-years, inhalation	rat	This product has had a positive finding in a carcinogenic investigation. The findings do not appear to be relevant to classification due to the non genotoxic mechanism and the species sensitivity to the liver tumors observed.

Reproductive toxicity / Teratogenicity:

Test material	Exposure	Species	Result
NMP	oral (OECD 416)	rat	NOAEL F1: 160 mg/kg bw/day (systemic toxicity, developmental toxicity) NOAEL F1: 350 mg/kg bw/day (reproductive toxicity) NOAEL F2: 160 mg/kg bw/day (developmental toxicity)
NMP	inhalation (OECD 414)	rabbit	NOAEC: 1 mg/L bw/day (maternal toxicity) NOAEC: 1 mg/L bw/day (teratogenicity) NOAEC: 0.5 mg/L bw/day (developmental toxicity)

Summary of evaluation of the CMR properties: Reproductive toxicant, Category 1B.

STOT-single exposure:

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Test material	Method	Result
MWCNT	Estimation: Possible hazard	May be harmful if inhaled.
NMP	Literature	May cause respiratory irritation.

STOT-repeated exposure:

Test material	Exposure	Species, Target organ	Result
MWCNT	28 days, oral	rat	NOAEL: 0.5 mg/kg
MWCNT	5 days, inhalation	rat, lung (pulmonary inflammation)	LOAEC: 2 mg/m ³
MWCNT	90 days, inhalation	rat, lung (multifocal granulomatous inflammation)	LOAEC: 0.1 mg/m ³
NMP	90 days, oral (OECD 408)	rat	NOAEL: 3000 ppm LOAEL: 7500 ppm
NMP	96 days, inhalation (OECD 413)	rat (slight nasal irritation)	NOAC: 0.5 mg/L (local irritation and systemic toxicity) LOAEC: 1mg/L
NMP	96 days, dermal (OECD 410)	rabbit (mild skin irritation)	NOAEL: 826 mg/kg bw/day (systemic toxicity)

Aspiration hazard: Not classified but may be harmful if swallowed and enters airways.

SECTION 12. Ecological information

12.1 Toxicity

No data available on the product itself. All MWCNT data have been gathered on a similar material (read-across).

Acute toxicity

Test material	Study type	Result
MWCNT	Fish, 14 days, semi static	LC50: > 100 mg/l
NMP	Fish, 96h, static	LC50: > 500 mg/L
MWCNT	Daphnia, 48 hours, static	EC50: > 100 mg/l
NMP	Daphnia, 24 hours	EC50: > 1000 mg/l
NMP	Invertebrate, saltwater, 96 hours	EC50: > 1107 mg/l
MWCNT	Algae, 72 hours	EC50: 134 mg/l
NMP	Activated sludge, 30 min	EC50: > 600 mg/l

Chronic toxicity

Test material	Study type	Result
MWCNT	Fish, 10 days, semi static	EC10: 100 mg/l

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		NOEC: 100 mg/l
MWCNT	Daphnia, 21 days	NOEC: > 25 mg/l
NMP	Daphnia, 21 days, semi static	NOEC: 12.5 mg/l NOEC: 25 mg/l
NMP	Activated sludge, 48 min	EC10: 100 mg/l

12.2 Persistence and degradability: Not readily biodegradable (according to OECD criteria).

Test material	Study type	Result
NMP	BOD(Modified MITI), 28 days	Readily biodegradable, 73%

12.3 Bioaccumulative potential: Partition coefficient n-octanol /water (log Kow): No data available.

Bioconcentration factor (BCF): No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects: The substance has no ozone depleting potential.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Product: If the material becomes a waste, consider it as special waste. It can be destroyed by incineration in accordance with local, state and federal regulations. For all countries, the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws.

Suggested European Waste Catalogue (EWC) code: 16 03 05* "organic wastes containing hazardous substances"»

Container: Empty containers may be landfilled after have been emptied as thoroughly as possible, when in compliance with the Environmental Protection Regulation and with local, state and federal regulations.

13.1.2 Waste treatment-relevant information: Avoid losses to the environment

13.1.3 Sewage disposal-relevant information: Do not allow to enter ground soil, sewage, drains.

13.1.4 Other disposal recommendations: No data available

SECTION 14. Transport information

No dangerous good in sense of these transport regulations:
Land transport (ADR/RID); Inland waterway transport (ADN); Sea transport (IMDG); Air transport (ICAO-TI / IATA-DGR).

14.1. UN number : None.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es) : Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: No.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code": Not applicable.

SECTION 15. Regulation information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

REACH

The substance "short tangled multi-walled carbon nanotubes obtained by catalytic chemical vapour deposition" (MWCNT) has been registered under REACH (RRN: 01-2119879048-26-0001). The substance as registered had no corresponding CAS number. The European Agency ECHA has however assigned the provisional EC List Number 936-414-1. The MWCNT dispersed in this product is similar to the NC8000™ or NC7000™.

The substance(s) in this product has (have) been Registered or are exempted from registration according to Regulation (EC) REACH 1907/2006.

REACH Authorisations: -

REACH Restrictions on use (Annex XVII):

Chemical name	CAS number	Date	
N-methyl-2-pyrrolidone	872-50-4	9 May 2020	Communication of DNELs by suppliers
N-methyl-2-pyrrolidone	872-50-4	9 May 2020	Respect of DNELs on the workplace by users
N-methyl-2-pyrrolidone	872-50-4	9 May 2024	Delay for coating wires applications

<https://echa.europa.eu/documents/10162/e7598958-eae7-1661-0636-02778b427efc>

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Germany

Wassergefährdungsklasse (water hazard class): WGK 1, self-classification.

France

Tableaux des maladies professionnelles (R-463-3, Tableau 84 du Régime Général):

Chemical name	CAS number	CIRC Classification
N-méthyl-2-pyrrolidone	872-50-4	-

United States of America

Toxic Substance Control Act

This product contains one or more substance(s) which is/are not listed on the TSCA inventory.

SARA Section 302 Title III: None.

SARA Section 311/312 Hazard Categories: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 EPCRA Toxic Chemical Release Inventory (TRI):

Chemical name	CAS number	% (wt.)	De minimis % Limit
N-Methyl-2-pyrrolidone	872-50-4	>90	1

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): Please contact Nanocyl S.A.

Massachusetts Right To Know, 105 CMR 670.000 Appendix A:

Chemical name	CAS number	References	
N-Methyl-2-pyrrolidone	872-50-4	6	

Minnesota Right To Know, 105 CMR 670.000 Appendix A:

Chemical name	CAS number	Toxicity	Persistent, Bioaccumulative, Toxic or very persistent , very bioaccumulative	HPV
N-Methyl-2-pyrrolidone	872-50-4	developmental	-	yes

Pennsylvania Right To Know:

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Chemical name	CAS number	Environmental Hazard	Special Hazardous Substance
2-Pyrrolidinone, 1-methyl-2,beta-butoxyethoxyethyl chloride	872-50-4	-	-

New Jersey Right To Know:

Chemical name	CAS number	RTK number
1-Methyl-2-pyrrolidone	872-50-4	3716

Canada

This product contains one or more substance(s) which is/are not listed on the Canadian Domestic Substance List (DSL) or non-Domestic Substances List (NDSL).

Inventories

All components of this product are compliant with the following chemical inventories:

European Inventory of Existing Commercial Chemical Substances (EINECS), Canadian Domestic Substance List (DSL) or non-Domestic Substances List (NDSL), Japanese Existing and New Chemical Substance (ENCS), Korean Existing Chemical Substance (ECL), Philippines Inventory of Chemicals and Chemical Substances (PICCS), Chinese Chemical Inventory of Existing Chemical Substance (IECS) and Taiwan Existing Chemical Substance Nomination (ECN).

15.2 Chemical Safety Assessment:

Chemical safety assessments for substances in this mixture have been carried out.

SECTION 16. Other information

The contents and format of this SDS are in accordance with Regulation (EC) No. 1907/2006 (REACH) and its amendments.

The contents and format of this SDS are in accordance with OSHA GHS Regulation 29 CFR 1910.1200 and its amendments.

Abbreviations and acronyms:

EC European Commission
CLP Classification Labelling and Packaging
GHS Globally Harmonized System
NIOSH National Institute for Occupational Safety and Health

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OSHA Occupational Safety and Health Administration

SDS Safety Data Sheet

Full-text of GHS phrases and classification:

GHS07



Exclamation mark

GHS08



Health hazard

H360D

May damage the unborn child

H319

Causes serious eye irritation

H315

Causes skin irritation

H335

May cause respiratory irritation

Classification procedure:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Eye Irrit. Cat. 2	Calculation method.
Skin Irrit. Cat. 2	Calculation method.
STOT SE Cat. 3	Calculation method.
Repr. Cat. 1B	Calculation method.

Vertical lines in the left hand margin indicate an amendment from the previous version.

Safety Data Sheet revision history:

Previous version: /

Current version: 24 January 2023 (V01)

Disclaimer:

Nanocyl S.A. provides the information contained herein in good faith and makes no representation as to its comprehensiveness or accuracy. This SDS has been compiled and is solely intended for this product. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material.