

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes Date 24-Nov-2019***

Revision date 03-Aug-2023

Revision Number 5

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

1.1. Product identifier

Product Code(s) 12229***
Safety data sheet number 12229***
Product Name DOWSIL 23 N ADDITIVE
EC No (EU Index No) 604-931-9***
CAS No 153890-18-7***
Synonyms DOW CORNING 23 N ADDITIVE***
Pure substance/mixture Substance***

Contains 2-(8-METHYLNONOXY)ETHANOL, ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED

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

Recommended use Additive***

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com
Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Serious eye damage/eye irritation	Category 1*** - (H318)***
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2.2. Label elements

Contains 2-(8-METHYLNONOXY)ETHANOL, ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED

**Signal word**

Danger***

Hazard statements

H318 - Causes serious eye damage***

Precautionary statements

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor***

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.***

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).***

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.***

2.3. Other hazards

Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with: Water. Alcohols. Acidic. Bases. Oxidising Agent.***

SECTION 3: Composition/information on ingredients**3.1 Substances*****

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED, REACTION PRODUCTS WITH ME HYDROGEN SILOXANES AND 2-[[3-(TRIMETHOXY SILENYL)PROPOXY] METHYL]OXIRANE ***	90 - 100%	-	-	-	-	-	-

153890-18-7							
2-(8-METHYLNON OXY)ETHANOL*** 61827-42-7	>= 2.6 - <= 2.8 %	-	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318)***	-	-	-
ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED*** 68131-40-8	>= 1.7 - <= 1.9 %	-	-	Aquatic Chronic 3 (H412) Acute Tox. 4 (H302) Eye Dam. 1 (H318)***	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	Use personal protection recommended in Section 8.***
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.***
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for 30 minutes. Call a doctor immediately.***
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.***
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical attention if symptoms occur.***

4.2. Most important symptoms and effects, both acute and delayed

Eyes	Causes serious eye damage. Causes eye burns.***
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Carbon dioxide (CO2). Alcohol resistant foam. Water spray.***
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams. Dry chemical.***

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.***
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Hazardous combustion products Carbon oxides. Silicon oxides. Formaldehyde.***

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing.***

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Stop leak if possible without any risk. Collect with absorbent, non-combustible material into suitable containers. Do not allow run-off from fire-fighting to enter drains or water courses. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with: Water. Bases. Acidic. Alcohols. Oxidising Agent.***

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin and eyes. Do not breathe dust. Avoid contact with: Water. Protect from moisture. Keep container closed when not in use. Handle in accordance with good industrial hygiene and safety practice.***

General hygiene considerations Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep only in original packaging. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Closed containers can burst violently when heated, due to excess pressure build-up. Avoid contact with: Strong oxidising agents.***

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers ***

Chemical name	Oral	Dermal	Inhalation
ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED*** 68131-40-8		6 mg/kg bw/day [4] [6]***	42.32 mg/m ³ [4] [6]***

[4] Systemic health effects.***
[6] Long term.***

Derived No Effect Level (DNEL) - General Public ***

Chemical name	Oral	Dermal	Inhalation
ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED*** 68131-40-8	3 mg/kg bw/day [4] [6]***		21.16 mg/m ³ [4] [6]***

[4] Systemic health effects.***
[6] Long term.***

Predicted No Effect Concentration (PNEC) ***

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED*** 68131-40-8	20 µg/L***	15.3 µg/L***	2 µg/L***	1.53 µg/L***	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED*** 68131-40-8	28.1 mg/kg sediment dw***	2.81 mg/kg sediment dw***	8.24 mg/L***	5.6 mg/kg soil dw***	22.2 mg/kg food***

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).***

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374.***

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Polyvinyl chloride (PVC)***	> 0.35 mm***	
	Wear protective Neoprene™ gloves***	> 0.35 mm***	
	Wear protective nitrile rubber gloves***	> 0.35 mm***	

Skin and body protection Wear appropriate clothing to prevent reasonably probable skin contact.***

Respiratory protection Use appropriate respiratory protection.***
Organic gases and vapours filter conforming to EN 14387. Type AP2.***

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Powder***
Appearance Dusty powder***
Colour white***
Odour Slight.***
Odour threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		No information available
Initial boiling point and boiling range		Not applicable***
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		Not applicable***
Autoignition temperature		No information available
Decomposition temperature		No information available
pH		Not applicable***
pH (as aqueous solution)		No information available
Kinematic viscosity		Not applicable***
Dynamic viscosity		Not applicable***
Water solubility	Not determined***	***
Solubility(ies)	Not determined***	***
Partition coefficient		Not determined***
Vapour pressure		Not applicable***
Relative density	0.98***	***
Bulk density		
No information available		Relative vapour density
No information available		Particle characteristics
		Particle Size 5 µm***

Particle Size
DistributionExplosive properties
Oxidising propertiesNot considered to be explosive***
Does not meet the criteria for classification as oxidising***9.2. Other information

Evaporation rate

Not applicable***

SECTION 10: Stability and reactivity10.1. Reactivity

Reactivity

No information available.

10.2. Chemical stability

Stability

Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Strong oxidising agents. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with: Water. Alcohols. Acidic. Bases. Oxidising Agent. Metals. Hazardous decomposition products will be formed at elevated temperatures.***

10.4. Conditions to avoid

Conditions to avoid

Protect from moisture.***

10.5. Incompatible materials

Incompatible materials

Strong oxidising agents.***

10.6. Hazardous decomposition products

Hazardous decomposition products

Carbon oxides. Silicon oxides. Formaldehyde.***

SECTION 11: Toxicological information11.1. Information on toxicological effectsInformation on likely routes of exposure

Product Information

Inhalation

Inhalation of dust in high concentration may cause irritation of respiratory system.***

Eye contact

Causes serious eye damage. Causes eye burns.***

Skin contact

May cause slight irritation.***

Ingestion

Gastrointestinal discomfort.***

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document ***

ATEmix (oral) 11,111.10*** mg/kg***

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.***

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).***

>*** 5000*** mg/kg*** >*** 2000*** mg/kg***

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED***	= 2100 mg/kg (Rat) ***	> 2000 mg/kg (Rat)***	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Redness. May cause slight irritation.***

Serious eye damage/eye irritation Causes serious eye damage.***

Respiratory or skin sensitisation Based on available data the classification criteria are not met.***

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard Based on available data the classification criteria are not met.***

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.***

2-(8-METHYLNONOXY)ETHANOL (61827-42-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)***	LC50***	> 10 - 100 mg/L***	96 hours***	
		EC50***	> 10 - 100 mg/L***	48 hours***	
	Algae***	EC50***	> 10 - 100 mg/L***	72 hours***	

ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED (68131-40-8)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Brachydanio rerio***	LC50***	> 1 - 10 mg/L***	96 hours***	
	Daphnia magna***	EC50***	> 1 - 10 mg/L***	48 hours***	
Chronic aquatic toxicity***	Daphnia magna***	NOEC***	> 0.1 - 1 mg/L***	21 days***	

12.2. Persistence and degradability

Persistence and degradability No information available.

2-(8-METHYLNONOXY)ETHANOL (61827-42-7)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)***	28 days***	Biodegradation > 60 %***	Readily biodegradable***

ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED (68131-40-8)

Method	Exposure time	Value	Results
			Readily biodegradable***

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
ALCOHOLS C11 - C15 SECONDARY ETHOXYLATED***	The substance is not PBT / vPvB***

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note ***Indicates updated data since last publication

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Method Used

Acute oral toxicity***	Calculation method***
Acute dermal toxicity***	Calculation method***
Acute inhalation toxicity - gas***	Calculation method***
Acute inhalation toxicity - vapour***	Calculation method***
Acute inhalation toxicity - dust/mist***	Calculation method***
Skin corrosion/irritation***	Calculation method***
Serious eye damage/eye irritation***	Calculation method***
Respiratory sensitisation***	Calculation method***
Skin sensitisation***	Calculation method***
Mutagenicity***	Calculation method***
Carcinogenicity***	Calculation method***
Reproductive toxicity***	Calculation method***
STOT - single exposure***	Calculation method***
STOT - repeated exposure***	Calculation method***
Acute aquatic toxicity***	Calculation method***
Chronic aquatic toxicity***	Calculation method***
Aspiration hazard***	Calculation method***
Ozone***	Calculation method***

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGLS)
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
 Organisation for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Prepared By Lisa Bland***

Supersedes Date 24-Nov-2019***

Revision date 03-Aug-2023

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
 Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

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.

End of Safety Data Sheet