Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
SDS Reference Number: MSDS-01/E
Issue date: 3/15/1994 Revision date: 8/25/2025 Supersedes version of: 9/9/2022 Version: 11.0

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

1.1. Product identifier

Product form	:	Substances
Trade name	:	Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades
Chemical name	:	Perlite
EC-No.	:	618-970-4
CAS-No.	:	93763-70-3
Product code	:	350/536
Type of product	:	Inorganic compounds
Product group	:	Trade product

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

Relevant identified uses

Main use category	:	Industrial use,Professional use
Industrial/Professional use spec	:	Chemical
Use of the substance/mixture	:	Filtering and filling Filter aid
Function or use category	:	Fillers

Uses advised against

Restrictions on use	:	Any other intended applications should be discussed with the manufacturer

1.3. Details of the supplier of the safety data sheet

Manufacturer
Dicalite Europe nv
Scheepzatestraat 100
B-9000 Gent
Tel.: +32-9 250 95 50 Fax: +32-9 250 95 59
e-mail: sales@dicalite-europe.com website: www.dicalite-europe.com

SDS responsible:
Tim Neyt
Customer Service Manager
Tel.:+32-9 250 95 63 E-mail: sales@dicalite-europe.com

1.4. Emergency telephone number

Emergency number	:	+32 -9 250 95 50 (8.00-17.00) +32 477 424 783 (17.00-8.00) Mr. Tim Neyt Company

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

Dust may cause mechanical irritation.

2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : Does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice and that precautions are taken to avoid the inhalation of dust. Dust may cause mechanical irritation. May cause irritation to the respiratory tract.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Exempted from REACH regulation, Annex V

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite _All grades	CAS-No.: 93763-70-3 EC-No.: 618-970-4	≈ 100	Not classified

Comments : Silica, respirable crystalline
<0,1% fine fraction

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Dust may cause mechanical irritation. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of irritation or coughing : Seek immediate medical advice.

First-aid measures after skin contact : Wash with water and soap as a precaution. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub eyes, cornea damage possible. Obtain medical attention if pain, blinking or redness persists. Consult an ophtalmologist if irritation persists.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/effects : Dust may cause mechanical irritation.

Symptoms/effects after inhalation : Cough.

Symptoms/effects after skin contact : Dust may cause mechanical irritation.

Symptoms/effects after eye contact : redness, pain, mild eye irritation. Mechanical irritation.

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

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	The product is not flammable. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Not combustible.
Explosion hazard	:	Dust may form explosive mixture in air.
Reactivity in case of fire	:	None known.
Hazardous decomposition products in case of fire	:	not expected. Not combustible.

5.3. Advice for firefighters

Precautionary measures fire	:	No special technical protective measures required. Approach from upwind.
Firefighting instructions	:	Personal protection during fire fighting. Cool containers / tanks with spray water if possible.
Protection during firefighting	:	Measures in case of dust release. Wear self-contained breathing apparatus and protective suit (see section 8).
Other information	:	Avoid dust formation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Avoid dust formation. May be dangerously slippery if spilled. Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust). Concerning personal protective equipment to use, see section 8.

For non-emergency personnel

Protective equipment	:	For further information refer to section 8: "Exposure controls/personal protection".
Measures in case of dust release	:	In case of dust production: keep upwind.

For emergency responders

Protective equipment	:	For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	:	Powdered form: no compressed air for pumping over. Dust binding agents. Collect all waste in suitable and labelled containers and dispose according to local legislation.
Methods for cleaning up	:	Handling large quantities of product: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Take up large spills with pump or vacuum.
Other information	:	Avoid dust formation. Avoid static electricity discharges.

6.4. Reference to other sections

Reference to other sections (8, 13). SECTION 7.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	:	If spilled, may cause the floor to be slippery.
Precautions for safe handling	:	Avoid contact with skin and eyes. Avoid dust formation. Ensure there is adequate ventilation. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Handle in accordance with good industrial hygiene and safety procedures. Refer to: Exposure guidelines.

Hygiene measures	:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Use grounded electrical/mechanical equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Storage conditions	:	Avoid dust formation. Store in dry protected location to prevent any moisture contact. Store in a cool, well-ventilated place. Keep container tightly closed to avoid moisture absorption and contamination.
Incompatible products	:	None known.
Heat and ignition sources	:	Protect from heat and direct sunlight.
Storage area	:	Keep container in a well-ventilated place. Keep in a cool, well-ventilated place. Protect from moisture.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades (93763-70-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
European Union Legislation	Does not contain components with substance specific occupational exposure limits.
Refer to	(inhalable dust): 10 mg/m³
	(respirable dust): 5 mg/m³

Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

Air contaminants formed

Applicable OEL and BLV for air contaminants : Not determined

DNEL and PNEC

Additional information : No available information on product

8.2. Exposure controls

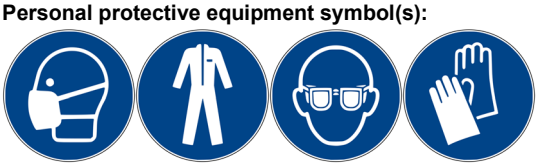
Appropriate engineering controls

Appropriate engineering controls:
Ventilation, local exhaust, or breathing protection. Provide adequate ventilation to minimize dust concentrations. The nuisance dust limit value is to kept. General exposure limit for inhalable particulate matter.

Personal protection equipment

Personal protective equipment:
Dust formation: dust mask. Dustproof clothing. In case of dust production: protective goggles. gloves.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:
In case of dust production: protective goggles. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

Skin protection

Skin and body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust)

Hand protection:
Standard EN 388 - Protective gloves against mechanical risk. Barrier cream

Respiratory protection

Respiratory protection:
Dust formation: dust mask. Wear a full face respirator conforming to EN136 with Type A/P2 filter or better

Thermal hazards

Thermal hazard protection:
No special technical protective measures required.

Environmental exposure controls

Environmental exposure controls:
Assure that emissions are compliant with all applicable air pollution control regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	White to off-white.
Appearance	:	Powder.
Odour	:	odourless.
Odour threshold	:	not applicable, odour not perceivable
Melting point	:	Not applicable
Freezing point	:	Not applicable
Softening point	:	> 800 °C
Boiling point	:	Not applicable
Flammability	:	Not applicable
Explosive properties	:	Not explosive.
Oxidising properties	:	Not applicable.
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not applicable
pH	:	5 – 9
pH solution	:	100 (5.5 – 9) g/l
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable
Solubility	:	Water: Insoluble
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	Not applicable
Vapour pressure	:	Not applicable

Vapour pressure at 50°C	:	Not available
Density	:	Not determined
Relative density	:	Not determined
Relative vapour density at 20°C	:	Not applicable
Particles size :	:	Not available
Particle shape	:	Multihedral Plates

9.2. Other information

Other safety characteristics

Relative evaporation rate (butylacetate=1)	:	Not applicable
Bulk density	:	80 – 200 kg/m³
Other properties	:	If necessary, information on other physical and chemical parameters is indicated in this section.
Flow	:	125 - 180 (PFRv) pfrv
cake Density; (wet)	:	181 Kg/m3
Moisture	:	< 1.7 g%
Softening point	:	900 - 1100 C°
Additional information	:	No further information available. (Read the technical data sheet). Specifications and technical informations on the product may be obtained by your dealer. :

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal conditions. Polymerisation: none.

10.4. Conditions to avoid

Avoid dust formation. Moisture.

10.5. Incompatible materials

Oxidizing agent. Acids. Hydrofluoric Acid.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	Silica dust (inert - but may irritate respiratory tract and eyes).
Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 5 – 9
Additional information	:	Repeated or prolonged contact may cause slight irritation to the skin
Serious eye damage/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 5 – 9
Additional information	:	May cause slight irritation to eyes
Respiratory or skin sensitisation	:	Not classified (Based on available data, the classification criteria are not met)

Additional information	:	May cause slight irritation
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	:	Not classified (Conclusive but not sufficient for classification)
STOT-repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)

Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades (93763-70-3)	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	:	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Other information

Potential adverse human health effects and symptoms	:	Dust may cause mechanical irritation.
Other information	:	When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us,The product has not been tested. The statement has been derived from substances/products of a similar structure or composition

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008. Not expected to present a significant hazard under anticipated conditions of normal use.
Ecology - air	:	Not determined.
Ecology - water	:	No data available on ecotoxicity. The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants. Avoid discharge of the product as is into the environment.
Hazardous to the aquatic environment, short–term (acute)	:	Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long–term (chronic)	:	Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades (93763-70-3)	
Persistence and degradability	Not applicable for inorganic substances.

12.3. Bioaccumulative potential

Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades (93763-70-3)	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Bioaccumulative potential	Not established.

12.4. Mobility in soil

Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades (93763-70-3)	
Mobility in soil	Not determined

12.5. Results of PBT and vPvB assessment

Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades (93763-70-3)
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Other adverse effects : When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Dicalite Milled Expanded Perlite / Dicalite Agents GPE /Dicalite Expanded Perlite_All grades (93763-70-3)	
Other information	Avoid undiluted product to come into sewer or superficial water

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Collect all waste in suitable and labelled containers and dispose according to local legislation.
Sewage disposal recommendations : Do not discharge into drains or the environment.
Product/Packaging disposal recommendations : Uncontaminted packaging can be re-used. Dispose in a safe manner in accordance with local/national regulations.
Additional information : Handle uncleaned empty containers as full ones. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
NOT SUBJECT	NOT SUBJECT	NOT SUBJECT	NOT SUBJECT	
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

ADR	IMDG	IATA	ADN	RID
No supplementary information available				

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

Other information, restriction and prohibition regulations : If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Dual-Use Regulation (428/2009)

Not listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Not listed on the Explosives Precursors list (EU)

Drug Precursors Regulation (273/2004)

Not listed on the Drug Precursors list (EU)

National regulations

No additional information available

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product

Users should ensure that they comply with any relevant local, provincial or national legislation.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Revision - See : *. According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II).

Indication of changes		
Section	**Changed item**	**Comments**
8	EU Regulatory Information	**Added**
	General information	**Added**

Abbreviations and acronyms:	
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
EC50	Median effective concentration
LOAEL	Lowest Observed Adverse Effect Level
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
LD50	Median lethal dose
TLM	Median Tolerance Limit
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development

Abbreviations and acronyms:	
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
CAS-No.	Chemical Abstract Service number
(COD)	Chemical oxygen demand (COD)
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
EC-No.	European Community number
ED	Endocrine disruptor
EN	European Standard
IOELV	Indicative Occupational Exposure Limit Value
N.O.S.	Not Otherwise Specified
OEL	Occupational Exposure Limit
ThOD	Theoretical oxygen demand (ThOD)
VOC	Volatile organic compounds

Data sources : Manufacturer/Supplier. Authoring: Quick.MSDS Sprl - Belgium info@quick-msds.be +32 (0) 479 469 465.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging and in line with the expectations of a professional user.

Other information : No further information available.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.