

SAFETY DATA SHEET

VIAFORM GRANULAR

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

1.1. Product identifier

Trade name: VIAFORM GRANULAR
Other names / Synonyms: Sodium formate
Product no.: PZ1381G 1000 kg, PZ11DG4AE/PC113G13E 25 kg
Other means of identification: EC No.: 205-488-0
CAS No.: 141-53-7
Unique formula identifier (UFI): 8RGA-3VQA-120N-35W1

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

Relevant identified uses of the substance or mixture: De-icing
Restricted to professional users.

Use descriptors (UK REACH):

Sectors of use	Description
LCS "C"	Consumer uses: Private households (= general public = consumers)
LCS "F"	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	Description
PC 4	Anti-Freeze and De-icing products
Process category	Description
PROC 5	Mixing or blending in batch PROC esses for formulation of preparations and articles (multistage and/or significant contact)
PROC 8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC 9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC 15	Use as laboratory reagent
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
Environmental release category	Description
ERC 8d	Wide dispersive outdoor use of processing aids in open systems

Uses advised against : None known.

1.3. Details of the supplier of the safety data sheet

Company and address: **ADDICON Nordic AS**
Herøya Industrial park B-85, Hydrovegen 55, Postboks 1138, 3905 Porsgrunn
3936 Porsgrunn
Norway
+47 35 56 41 00
www.addcon.com
Contact person: HESQ ADDICON Nordic AS, Øyvind O. Due: +47 35 56 41 37/ mob +47 48 26 91 48
E-mail: oyvind.oskarsen.due@addcon.com
Revision: 26/06/2025
SDS Version: 13.0
Date of previous version: 26/06/2025 (12.0)

1.4. Emergency telephone number

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 112 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.2. Label elements

Hazard pictogram(s): Not applicable.
Signal word: Not applicable.
Hazard statement(s): Not applicable.
Precautionary statement(s):
General: -
Prevention: Avoid breathing dust. (P261)
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Storage: -
Disposal: -
Hazardous substances: Does not contain any substances required to report
Additional labelling:
UFI: 8RGA-3VQA-120N-35W1
The product is classified based on test data.

2.3. Other hazards

Additional warnings: This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product/substance	Identifiers	% w/w	Classification	Note
Sodium formate	CAS No.: 141-53-7 EC No.: 205-488-0 UK-REACH: Index No.:	≥ 98,5 %		

3.2. Mixtures

Not applicable. This product is a substance.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information: In the case of accident: Contact a doctor or casualty department – take the label or this safety

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

	data sheet.
	Contact a doctor if in doubt about the injured person's condition or if the symptoms persist.
	Never give an unconscious person water or other drink.
Inhalation:	In case of discomfort: bring the person into fresh air.
Skin contact:	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
Eye contact:	Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help.
Ingestion:	Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.
Burns:	Not applicable.

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

In case of inhalation: Cough, shortness of breath, sore throat, wheezing. In case of eye contact: Redness, pain. In case of ingestion: Abdominal pain, diarrhoea, nausea, vomiting.

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

Treat symptomatically.

Information to medic

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. **▼ Special hazards arising from the substance or mixture**

Produktet er ikke brannfarlig ved normal bruk og oppbevaring. Ved kraftig oppvarming (>360°C) kan natriumformiat brytes ned til hydrogen, karbonmonoxide og oxalat.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

Formation of hydrogen can lead to a risk of explosion.

5.3. **Advice for firefighters**

No specific requirements.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Avoid dust generation and inhalation.

6.2. **Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. **Methods and material for containment and cleaning up**

Limit spillage, sweep up and shovel into appropriate containers for disposal. Store in suitable, closed containers for disposal.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. **Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Ensure adequate ventilation. Avoid dust generation and inhalation.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. **▼ Conditions for safe storage, including any incompatibilities**

Recommended storage material: Keep only in original packaging.

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

- Storage conditions: Avoid humid conditions. The product is hygroscopic.
Dry, cool and well ventilated
- ▼ Incompatible materials: Strong oxidizing agents
Strong acids
Avoid contact with highly oxidizing materials such as nitric acid, hydrogen peroxide and sulfuric acid.

- 7.3. Specific end use(s)**
This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

No data available.

PNEC

No data available.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures: Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

Hygiene measures: Wash hands after use.

Measures to avoid environmental exposure: No specific requirements.

Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:

Work situation	Type	Class	Colour	Standards	
	Respiratory protection is not needed in the event of adequate ventilation.				
When there is risk of dust formation	S/SL	P2	White	EN149	

Skin protection:

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,4	>480	EN374-2, EN374-3, EN388	

Eye protection:

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Work situation	Type	Standards	
When there is risk of dust formation	Safety glasses	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Granulate
Colour:	White
Odour / Odour threshold:	None
pH:	-
pH in solution:	9,5 - 9,7 (15%)
Density (g/cm ³):	-
Relative density:	~ 0,94 kg/l
Bulk density (kg/m ³):	900-950
Kinematic viscosity:	Does not apply to solids.
Particle characteristics:	No data available.

Phase changes

Melting point/Freezing point (°C):	253 °C
Softening point/range (°C):	Does not apply to solids.
Boiling point (°C):	411 °C
Vapour pressure:	No data available.
Relative vapour density:	Does not apply to solids.
Decomposition temperature (°C):	No data available.

Data on fire and explosion hazards

Flash point (°C):	Does not apply to solids.
Flammability (°C):	No data available.
Auto-ignition temperature (°C):	No data available.
Lower and upper explosion limit (% v/v):	Does not apply to solids.

Solubility

Solubility in water:	Soluble (81 gram pr. 100 ml (20 °C))
n-octanol/water coefficient (LogKow):	No data available.
Solubility in fat (g/L):	No data available.

9.2. Other information

Molecular Weight (g/mol):	68
Oxidizing properties:	No data available.
Other physical and chemical parameters:	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Hygroscopic. Absorbs moisture from the air. A solution of the product produces a basic solution.

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Moisture

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5. ▼ Incompatible materials

Strong oxidizing agents

Strong acids

Avoid contact with highly oxidizing materials such as nitric acid, hydrogen peroxide and sulfuric acid.

10.6. ▼ Hazardous decomposition products

Produktet er ikke brannfarlig ved normal bruk og oppbevaring. Ved kraftig oppvarming (>360°C) kan natriumformiat brytes ned til hydrogen, karbonmonoxide og oxalat.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Product/substance	Sodium formate
Test method:	OECD 401
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	11200 mg/kg

Product/substance	Sodium formate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kg bw

Product/substance	Sodium formate
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (dust)
Result:	670 mg/l

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product/substance	VIAFORM GRANULAR
Test method:	OECD 471
Conclusion:	No adverse effect observed

Product/substance	Sodium formate
Test method:	OECD 471
Conclusion:	No adverse effect observed

Based on available data, the classification criteria are not met.

Carcinogenicity

Product/substance	VIAFORM GRANULAR
Test method:	OECD 453
Route of exposure:	Oral
Result:	2000 mg/kg bw/day

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Conclusion: No adverse effect observed

Product/substance: Sodium formate
Test method: OECD 453
Species: Rat
Route of exposure: Oral
Test: NOAEL
Result: 2000 mg/kg bw/day

Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/substance: VIAFORM GRANULAR
Test method: OECD 416
Result: 1000 mg/kg bw/day
Conclusion: No adverse effect observed

Product/substance: Sodium formate
Test method: OECD 416
Species: Rat
Test: NOAEL
Result: 1000 mg/kg bw/day

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

None known.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance: VIAFORM GRANULAR
Test method: OECD 203
Species: Fish, *Oncorhynchus mykiss*
Result: >1000 mg/L

Product/substance: Sodium formate
Test method: LC50
Species: Fish, *Oncorhynchus mykiss*
Duration: 96 hours
Test: LC50
Result: > 1000 mg/l

Product/substance: Sodium formate
Test method: EC50
Species: Crustacean, *Daphnia magna*
Duration: 48 hours
Test: EC50
Result: > 1000 mg/l

Product/substance: Sodium formate
Species: Fish, *Scophthalmus maximus*
Duration: 96 hours

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Test:	LC50
Result:	1720 mg/L

Product/substance	Sodium formate
Species:	Crustacean, Crangon crangon
Duration:	96 hours
Test:	LC50
Result:	1.308 mg/L

Product/substance	Sodium formate
Species:	Algae, Pseudokirchneriella subcapitata
Duration:	72 hours
Test:	EC50
Result:	>790 mg/L

Product/substance	Sodium formate
Duration:	28 days
Test:	NOEC
Result:	22.13 mg/L

Product/substance	Sodium formate
Species:	Algae, Skeletonema costatum
Test:	LC50
Result:	1600 mg/L (ISO 253)

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Product/substance	VIAFORM GRANULAR
Conclusion:	Readily biodegradable

Product/substance	Sodium formate
Result:	92 %
Conclusion:	Readily biodegradable
Test:	OECD 301 D

Product/substance	Sodium formate
Duration:	28 days
Result:	86 %
Conclusion:	-
Test:	OECD 306

Product/substance	Sodium formate
Result:	COD: 0.24g O2/g. BOD 0.2g O2/g.
Conclusion:	-

12.3. Bioaccumulative potential

Product/substance	VIAFORM GRANULAR
Conclusion:	Bioaccumulation is not expected

Product/substance	Sodium formate
BCF:	= 3,16 Bcfwin (v2.15)
Conclusion:	Bioaccumulation is not expected

Product/substance	Sodium formate
Conclusion:	-

12.4. Mobility in soil

Dissolves readily in water.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

environment.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

Waste treatment methods

Product is not covered by regulations on dangerous waste.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Not classified as hazardous waste. Smaller quantities can be flushed with large amounts of water. Larger quantities should be disposed of by a professional waste disposal company or, if possible, recycled. All waste should be treated in accordance with local and national regulations.

EWC code

Not applicable.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application: Restricted to professional users.

Demands for specific education: No specific requirements.

Control of Major Accident Hazards (COMAH) - Categories / dangerous substances: Not applicable.

Additional information: Not applicable.

Sources: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

The full text of identified uses as mentioned in section 1

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

LCS "C" = Consumer uses: Private households (= general public = consumers)
LCS "F" = Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC 5 = Mixing or blending in batch PROC esses for formulation of preparations and articles (multistage and/or significant contact)
PROC 8b = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
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PROC 15 = Use as laboratory reagent
PROC 8a = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PC 4 = Anti-Freeze and De-icing products
ERC 8d = Wide dispersive outdoor use of processing aids in open systems

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with UK-REACH, a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information as required by UK-REACH.

The safety data sheet is validated by

Safety Data Sheet Consulting AS

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en