Safety Data Sheet

Date of issue 2020/6/2
Version 1.0

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: ALFLOW H-50F-P

Substance name: Amides, C16-18 (even), N'N-ethylenebis-UVCB substance
EC number: 931-299-4
REACH Registration number: 01-2119487304-36-XXXX
CAS number: 68390-94-3

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

Identified uses: Industrial use

1.3 Details of the supplier of the safety data sheet

Manufacturer

NOF CORPORATION Amagasaki Plant
56, Ohamacho 1-chome, Amagasaki, Hyogo 660-0095, Japan
Tel +81-6-6419-7483 Fax +81-6-6416-8135
e-mail address: g_amg_kmsds@nof.co.jp

Supplier

NOF EUROPE GmbH
Hamburger Allee 2-4, 60486 Frankfurt am Main, Germany
Tel +49(0)69-7706-100-0 Fax +49(0)69-7706-100-10

E-mail address of competent person responsible for the SDS

g_amg_kmsds@nof.co.jp

1.4 Emergency telephone number

NOF EUROPE GmbH (Only available during office hours)
Tel +49(0)69-7706-100-0 Fax +49(0)69-7706-100-10
Language: English

2. Hazards identification

2.1 Classification of the substance or mixture

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

According to Regulation (EC) No. 1272/2008 (CLP), this material is not considered hazardous.

2.1.2 Additional information

See SECTION 11 for more detailed information on health effects and symptoms.

2.2 Label elements

No label elements required.

Supplemental Hazard information:
None

2.3 Other hazards
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
This substance/mixture does not meet the PBT/vPvB criteria of REACH Annex XIII.
Other hazards which do not result in classification
May form explosible dust-air mixture if dispersed.

3. Composition/Information on ingredients

3.1 Substance

CAS/ EC No/ REACH No	Index No.	REACH Registration No.	Substance name	Concentration	Classification: REGULATION (EC) No 1272/2008 [CLP]
CAS: 68390-94-3 EC No: 931-299-4		01-2119487304-36-XXXX	Amides, C16-18 (even), N'N-ethylenebis-UVCB substance	ca. 100%	

For full text of Hazard- and EU Hazard-statements: see SECTION 16.
Occupational exposure limits, if available, are listed in SECTION 8.

4. First-aid measures

4.1 Description of first aid measures
General notes
IF exposed or concerned: Immediately remove contaminated clothing. Get medical advice/attention.
Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. As the need arises, give artificial respiration and inhalation of oxygen.
Skin contact
Wash with plenty of water and soap. As the need arises, seek medical advice.
Eye contact
Flush eyes immediately with large amounts of water until irritation subsides. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention.
Ingestion
Do not induce vomiting. If the victim is conscious and not convulsing, give water or milk to drink, and get immediate medical attention.
Self-protection of the first aider
No action shall be taken involving any personal risk or without suitable training.
Use personal protective equipment as described in SECTION 8.

4.2 Most important symptoms and effects, both acute and delayed
The most important symptoms and effects are described in the SECTION 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed
Notes to physician:
Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments
No specific treatment.

5. Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media: Carbon dioxide, foam and powder.
Unsuitable extinguishing media: Water
5.2 Special hazards arising from the substance or mixture
Decomposition products may include the following materials: Carbon monoxide
5.3 Advice for firefighters
Special protective actions for fire-fighters
No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for fire-fighters
Self-contained breathing apparatus. Wear full protective equipment for firefighters.
Avoid breathing fire gases or vapors.
See SECTION 5.2 and SECTION 10.6 Hazardous decomposition products.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
No action shall be taken involving any personal risk or without suitable training.
Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
6.1.2. For emergency responders
Use personal protective equipment as described in SECTION 8.

6.2 Environmental precautions
Prevent the spill material entering a river or sewers.

6.3 Methods and material for containment and cleaning up
Wear protections (e.g., protective gloves, goggles and gas respirator) during work. Evacuate nonessential personnel to safe place, and work at windward. As the need arises, ventilate the area. Prevent the spilled material entering into a river or sewers. Recover with a vacuum-cleaner, broom and others.
Remove without scattering dust. Use explosion-proof and anti-electrostatic equipment.
Use tools not to spark.

6.4 Reference to other sections

See SECTION 1 for emergency contact information.
See SECTION 8 for information on appropriate personal protective equipment.
See SECTION 13 for additional waste treatment information.

7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Establish a washing equipment for eyes and body near the handling area. Ventilate a work area enough. Wear a dustproof mask in order not to breathe dust. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Use explosion-proof and anti-electrostatic equipment.
Wear adequate protections (see SECTION 8). Wash thoroughly hands, face, etc. and gargle after handling.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also SECTION 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store container tightly closed in well-ventilated place.

Seveso Directive-Reporting thresholds (in tons)

Category: Not assigned.
Qualifying quantity (tonnes) of dangerous substances
Lower tier: -
Upper tier: -

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.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

No exposure limit value known.

DNEL (Workers)

Long-term – systemic effects, inhalation	35.26 mg/m^3
Long-term – systemic effects, dermal	10 mg/kg/day

PNEC

Freshwater	No hazard identifer
Intermittent releases (freshwater)	No hazard identifer
Marine water	No hazard identifer
Sewage treatment plant (STP)	100 mg/L
Sediment (freshwater)	10 mg/kg sediment dw
Sediment (marine water)	1 mg/kg sediment dw

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Local exhaust ventilation is necessary in the vapor, fume, mist or dust atmosphere of the product.

8.2.2 Individual protection measures

Eye and face protection:

Safety glasses with side-shields

Skin protection:

Hand protection:

Chemical-resistant and safety gloves

Body protection:

Anti-electrostatic work clothes

Respiratory protection:

In dusty atmosphere, use an approved dustproof mask.

Thermal hazard:

No information available.

8.2.3 Environmental exposure controls:

See SECTION 7: Handling and storage and SECTION 13: Waste treatment methods.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid, Powder
Color	Light yellow
Odor	Slightly distinct odor
Odor threshold	Not available
pH	Not available
Melting point	140 - 145°C
Initial boiling point and boiling range	Not available
Flash point	296°C (Cleveland open-cup)
Evaporation rate	Not available
Upper/lower flammability or explosive limits	Lower: Not available Upper: Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Density	Bulk density: ca. 0.50 g/mL (20°C)
Solubility	Soluble in heated toluene and xylene.
Solubility in water	Insoluble

Partition coefficient: n-octanol/ water	ca. 15
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not considered to be a product presenting a risk of explosion.
Oxidizing properties	None.

9.2 Other information
No additional information available.

10. Stability and reactivity

10.1 Reactivity
Low reactivity with common acids and alkalis.
10.2 Chemical stability
Stable under normal storage and handling conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Avoid ignition sources (e.g., fire, flame, spark).
10.5 Incompatible materials
No data available
10.6 Hazardous decomposition products
Nitrogen oxide, Carbon monoxide

11. Toxicological information

11.1 Information on toxicological effects
Acute toxicity
LD_{50}, Oral, Rat, OECD 401: >5,000 mL/kg
LD_{50}, Dermal, Rabbit, OECD 402: >2,000 mL/kg
LC_{50}, Inhalation, Mouse, OECD 403: >6.3 mg/L/4h
Skin corrosion/irritation
Not irritating.
Serious eye damage/irritation
Not irritating.
Respiratory or skin sensitisation
Skin sensitization: Mouse, OECD 429, Not sensitising
Germ cell mutagenicity
Ames test; Negative
Chromosome aberration test; Negative
Carcinogenicity
Not available
Reproductive toxicity
Not available
Specific target organ toxicity — single exposure

Not available

Specific target organ toxicity — repeated exposure

No adverse effect observed. NOAEL: 1,000 mg/kg (Rat)

12. Ecological information

12.1 Toxicity

Acute (short-term) toxicity:

Not available (Poor solubility)

12.2 Persistence and degradability

Not readily biodegradable.

Activated sludge: 30 ppm. Concentration: 100 ppm. 2 weeks. Degradation: 1% (BOD)

12.3 Bioaccumulative potential

Bioaccumulation: BCF <0.7 and <6.2 Not bioaccumulative

Partition coefficient, n-octanol/water (Log P_{ow}): ca. 15

12.4 Mobility in soil

Mobility in soil: Not available

K_{OC}: Not available

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

No known significant effects or critical hazards.

13. Disposal considerations

13.1 Waste treatment methods

May be burned in an adequate incinerator in accordance with all applicable regulations.

Any dispose of contents/container must be in accordance with local/ regional/ national/ international regulation (contact regional or national environmental agency for specific rules).

14. Transport information

14.1 UN number

Not regulated as a dangerous good.

14.2 UN proper shipping name

None

14.3 Transport hazard class(es)

None

14.4 Packing group

None

14.5 Environmental hazards
Marine Pollutant: Not applicable
14.6 Special precautions for user
Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable
14.6 Special precautions for user
See SECTION 7.2 Conditions for safe storage, including any incompatibilities.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

15. Regulatory information

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

Annex XIV - List of substances subject to authorization

Annex XIV
None of the components are listed
Substances of very high concern
Not contains substances classified as 'Substances of Very High Concern' (SVHC) at concentration ≥ 0.1%

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Not listed.

Other EU regulations:
Ozone depleting substances (1005/2009/EU)
Not listed.
Prior Informed Consent (PIC) (649/2012/EU)
Not listed.
Persistent organic pollutants (POPs) (850/2004/EC)
Not listed.

Seveso Directive
This product is controlled under the Seveso Directive.
Danger criteria: -

15.2 Chemical Safety Assessment:
Not available.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.
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Revision Date

2020/6/2

Indication of changes

All Sections have been updated.

Abbreviations and acronyms

BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EUH statement	CLP-specific Hazard statement
IBC	Intermediate Bulk Container
IMDG	International Maritime Dangerous Goods
KOC	Adsorption Coefficient (Koc) on Soil
LC50	Median lethal concentration
LD50	Median lethal dose
Log Pow	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)
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PIC	Prior Informed Consent
PNEC	Predicted No-Effect Concentration
POPs	Persistent organic pollutants
TLm	Median tolerance limit
vPvB	Very Persistent and Very Bioaccumulative

Disclaimer

The statements in this bulletin were made to the best of our knowledge and as accurate as possible. They are given for information only. They don't constitute a contractual guarantee of a product's properties.