



HPL Additives Limited

SAFETY DATA SHEET

**In Accordance with Commission Regulation (EU) 453/2010, REACH
(Regulation (EC) No 1907/2006) & CLP (Regulation (EC) No 1272/2008)**

MIKROFINE® ADC 65

1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name : MIKROFINE® ADC- 65
 Substance Name : Mixture
 Index No. : 611-028-00-3
 CAS No. : 123-77-3
 Registration No. : 01-2119493056-35-0008

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

Identified uses : Chemical blowing agent
 Process Category (PROC)
 Forming agent blend PROC 5, PROC 8a, PROC 8b, PROC 15, ERC 2
 Compounding (industrial) PROC 5, PROC 8a, PROC 8b, PROC 14, PROC 15, ERC 5
 Foaming (industrial) PROC 3, PROC 6, PROC 8a, PROC 8b, PROC 9, PROC 12,
 PROC 15, ERC 3
 Extrusion (industrial) PROC 1, PROC 2, PROC 8a, PROC 8b, PROC 12, PROC 15,
 ERC 3

1.3 Details of the supplier of the safety data sheet

Non-EU Supplier : 5th Floor, Block A, Vatika Mindscapes,
 12/3, Main Mathura Road, Faridabad – 121003.
 Haryana, India
 Telephone : +91- 129- 2251300
 Fax : +91- 129- 2251304/05
 e-mail : hpla@hpladditives.com
 Prepared by : Product Compliance and Regulatory Affairs Department

Only Representative : REACHLaw Ltd.
 Keilaranta 15
 02150 Espoo
 Finland
 Telephone + 358(0) 9412 3055
 Fax + 358(0) 9412 3049
 e-mail SDS@reachlaw.fi

1.4 Emergency telephone number

Emergency Phone # : +91-9910486232
 Poison centres, Europe : Please see Section 16

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Respiratory sensitization (Category 1); H334

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn : Harmful
R42 : May cause sensitization by inhalation.
R44 : Risk of explosion if heated under confinement.

2.2 Label element

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram :



Signal word : Danger

HAZARD STATEMENT(S)

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

PRECAUTIONARY STATEMENT(S)

Prevention

P210 : Keep away from heat/sparks/open flames/hot surfaces. - No Smoking
P234 : Keep only in original container
P261 : Avoid breathing dust/fume
P285 : In case of inadequate ventilation wear respiratory protection

Response

P304 + P341 : IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P342 + P311 : If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P370 + P378 : In case of fire: Use CO₂, powder or water spray for extinction

Storage

P411 : Store at temperatures. Not exceeding 50°C
P403 + P233 : Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 : Dispose of contents/container in accordance with local/regional/ national/international regulations

Supplemental Hazard information (EU)

EUH044 : Risk for explosion if heated under confinement

2.3 Other hazards

: None

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture

Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008	Identifier number	Identification name	Weight % content (or range)	EC Number
Index number in CLP Annex VI	611-028-00-3	C,C'-azodi(formamide)	> 85	204-650-8
CAS Number	--	Proprietary	< 15	--

C,C'-azodi(formamide) Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) because of classification R42 and therefore listed under article 57f

4 FIRST AID MEASURES

4.1 Description of first aid measures

- Eye : Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor
- Skin : Generally the product does not irritate the skin, but in any case, wash thoroughly with water and soap.
- Ingestion : Keep patient at rest and seek medical advice. The following symptoms may occur: Asthma attacks and Allergic reactions
- Inhalation : Take patient into a well-ventilated area or supply fresh air, consult doctor in case of complaints.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No information available

5 FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

- : CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

Unsuitable Extinguishing Media

- : Water with full jet (for safety reasons)

5.2 Special hazards arising from the substance or mixture

- : In the event of a fire, toxic and combustible gases can be formed. If a fire breaks out nearby, pressure build up and danger of bursting are possible. In the case of exothermal disintegration ('characteristic' heavy white smoke development) and a nearby fire, spray or douse intensively with a lot of water immediately to guarantee quick cooling.

5.3 Advice for firefighters

- : Dust mask, gloves and overall, Self-contained breathing apparatus must be worn during fire fighting.

5.4 Other Information

- : Azodicarbonamide will only burn if it is exposed to a flame and is self extinguishing when the flame is removed.

6 ACCIDENTAL RELEASE MEASURES

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|--|--|
| 6.1 Personal precautions, protective equipment and emergency procedures | : Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Keep away from ignition sources. Wear protective clothing. Evacuate personnel to safe areas. Avoid breathing dust. |
| 6.2 Environmental precautions | : Prevent contamination of soil, drain and surface water. Product should not be allowed to enter into local drainage or sewer systems. Spillage should be removed, Preferably by vacuum cleaner, taking care to avoid creating a dust cloud. |
| 6.3 Methods and materials for containment and cleaning up | : Pick up mechanically, by vacuum cleaner or cover with inert material and sweep up. Stored in labeled containers. Dispose of the material collected according to regulations. Dispose contaminated material as waste according to disposal consideration. |
| 6.4 Reference to other sections | : For disposal see section 13. |

7 HANDLING AND STORAGE

- | | |
|---|---|
| 7.1 Precautions for safe handling | : Keep away from heat and direct sunlight. Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed. Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal. Ensure good ventilation/exhaustion at the workplace. Do not raising dust. Do not breathe dust and thermal decomposition products. Avoid contact with eyes, skin and clothing. - |
| 7.2 Information about fire and explosion protection | : Keep ignition sources away. Do not smoke. Protect against electrostatic charges. Dust can combine with air to form an explosive mixture. Keep respiratory protective device available. |
| 7.3 Conditions for safe storage, including any incompatibilities | : Store only in the original receptacle. Store in a cool location. Keep at temperature not exceeding 50°C |
| 7.4 Information about storage in one common storage facility | : Do not store together with reducing agents, heavy-metal compounds, acids and alkalis (with which it react). |
| 7.5 Further information about storage conditions | : Protect from heat and direct sunlight. Store in cool, dry conditions in well sealed receptacles. - Protect from humidity and water. Packaging containing Azodicarbonamide shouldn't be stacked more than two pallets high or compaction may occur. |

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameter	: Occupational exposure standards (HSE / MAK / ACGIH) ACGIH TLV: TWA 5 mg/m ³ NIOSH REL: TWA 5 mg/m ³
8.2 Exposure controls	
General protective and hygienic measures	: In general ensure good personal hygiene. During processing, ensure efficient ventilation in the working area. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed.
Respiratory Protection	: Dust mask. Good ventilation is desirable and respiratory protection during dust formation. In case of brief exposure or low pollution use respiratory filter device (filter P2). In case of intensive or longer exposure, use self-contained respiratory protective device
Hand protection	: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation
Eye protection	: Wear appropriate protective eyeglasses or chemical safety goggles.
Skin Protection	: Wear appropriate protective gloves, protective clothing to prevent skin exposure and by use of skin-protecting agents
Body Protection	: Wear protective clothing to prevent skin exposure

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	: Form : Solid powder Colour : Yellow
b) Odour	: Odourless
c) Odour Threshold	: Not Applicable
d) pH (5% aq. Suspension)	: 6.5-7.5
e) Melting point/freezing point	: Substance decomposes
f) Initial boiling point and boiling range	: Not Applicable
g) Flash point	: Not Applicable
h) Evaporation rate	: No data available
i) Flammability (solid, gas)	: No data available
j) Upper/lower flammability or explosive limits	: No data available
k) Vapour pressure	: No data available
l) Vapour density	: No data available
m) Relative density (gm/cc)	: ~1.66
n) Water solubility	: Insoluble in water
o) Partition coefficient : octanol/ water	: No data available
p) Autoignition temperature	: No data available
q) Decomposition temperature (°C)	: 140-146
r) Viscosity	: No data available
s) Oxidising properties	: No data available

9.2 Other safety information No data available

10 STABILITY AND REACTIVITY

10.1 Reactivity	: No data available
10.2 Chemical stability	: Stable under ordinary conditions
10.3 Possibility of hazardous reactions	: No data available
10.4 Condition to avoid	: Thermal decomposition /conditions to be avoided:No decomposition if used and stored according to specifications.To avoid to store close to alkalis. To avoid thermal decomposition do not overheat.
10.5 Incompatible material	: Alkalis. Dangerous reactions with strong Reducing agent.Exothermic reaction.Risk of dust explosion
10.6 Dangerous decomposition products	: CO, NH3

11 TOXICOLOGICAL INFORMATION

11.1 Information of Toxicological effect	
Acute toxicity	: LD 50 (Oral)- rat > 6800 mg/Kg LD 50 (Dermal) rabbits >2000mg/kg LC 50 (rats) >200 mg/l(hr)
Skin corrosion/irritation	: May be mildly irritating to skin
Serious eye damage/eye irritation	: May be mildly irritating to eyes
Respiratory or skin sensitization	: Inhalation of dust can cause lung sensitization.
Germ cell mutagenicity	: Identified as a mutagen in bacterial system, but it was not mutagenic in mammalian cell <i>in vitro</i> test systems or in two mammalian assays <i>in vivo</i> using bone marrow.
Carcinogenicity	: Not listed by ACGIH, IARC, NIOSH and NTP
Reproductive toxicity	: No data available
Specific target organ toxicity - single exposure	: No data available
Specific target organ toxicity - repeated exposure	: No data available
Aspiration hazard	: No data available
Potential health effects	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	: May be harmful if swallowed.
Skin	: Toxic if absorbed through skin. May cause skin irritation.
Eyes	: May cause eye irritation.
Signs and Symptoms of Exposure	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 ECOLOGICAL INFORMATION

12.1 Toxicity	: Fathead minnow LC50 (48 hr) > 50 mg/l (<i>Pimephales promelas</i>) Water flea EC50 (48 hr) 11 mg/l (<i>Daphnia magna</i>)
12.2 Persistence and degradability	: Biodegradability (30 days).....around 70 %
12.3 Bioaccumulative potential	: LC50 (rats) > 200 mg/l (hr)
12.4 Mobility in soil	: immobilization
12.5 Results of PBT and vPvB assessment	: Not carried out
12.6 Other adverse effects	: No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
Product	: Recommendation- Must not be disposed together with household garbage. Do not allow product to reach sewage system. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste. Recover or recycle if possible, otherwise perform incineration.
Contaminated packaging	: Non contaminated packaging may be recycled.-Empty contaminated packaging and These may be recycled after thorough and proper cleaning. Packaging that may not be cleaned have to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

14 TRANSPORTATION INFORMATION

This product is regulated by ADR/RID/IMDG as follows:

LAND TRANSPORT (ADR/RID)

UN Number	: 3242
Class	: 4.1 (SR 1)
Packaging group	: II
Labels	: 4.1

MARINE TRANSPORT (IMDG)

UN Number	: 3242
UN proper shipping name	: AZODICARBONAMIDE
Chemical name	: AZODICARBONAMIDE
Transport hazard class(es)	: 4.1
Packaging group	: II
EmS number	: F-J, S-G
Labels	: 4.1
Marine pollutant	: No
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	: N/A
Air transport ICAO/ TI and IATA/DGR:	: Air Transport not allowed

15 REGULATORY INFORMATION

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

No data available

15.2 Chemical Safety Assessment

Exposure scenarios attached.

16 OTHER INFORMATION

Information which has been added, deleted or revised

This safety data sheet is drawn up to comply with the requirements of Regulation (EC) No. 1907/2006 (REACH), as amended by Annex I to Commission Regulation (EU) No 453/2010 of 20 May 2010.

Key literature references and sources for data:

ecchemPortal, Toxnet

List of S-Phrases

S22	Do not breathe dust
S24	Avoid contact with skin
S37	Wear suitable gloves

Poison centres, Europe: Emergency telephone number:

SLOVAKIA (Bratislava) +421 2 54 77 4 166; SLOVENIA (Ljubljana) + 386 41 650 500; SPAIN (Madrid) +34 156 20420 AUSTRIA (Vienna Wien) +43 1 40 64343; BELGIUM (Brussels Bruxelles) +32 70 245 245; BULGARIA (Sofia) + 359 2 9154 378 / +359 887 435 325; CZECH REPUBLIC (Prague Praha) +42 2 2491 9293; DENMARK (Copenhagen) +45 82 121212; FINLAND (Helsinki) +358 9 471 977; FRANCE (Paris) +33 1 40 05 48 48; GERMANY (Berlin) +49 30 19240; GREECE (Athens Athinai) +30 10 779 3777; HUNGARY (Budapest) +36 80 20 11 99; ICELAND (Reykjavik) +354 543 2222; IRELAND (Dublin) +353 1 8379964 (medical professionals), +353 1 8092166 (public); ITALY (Rome) +39 06 305 4343; LATVIA (Riga) +371 704 2468; LITHUANIA (Vilnius) +370 687 53378, +370 2 36 20 92; NETHERLANDS (Bilthoven) +31 30 274 88 88; NORWAY (Oslo) +47 22 591300; POLAND (Gdansk) +48 58 682 0404; PORTUGAL (Lisbon) 808 250 143 (for use only in Portugal), +351 21 330 3284; ROMANIA (Bucharest) +40 21 2106282; SWEDEN (Stockholm) +46 8 33 12 31 (International) 112 (National); UNITED KINGDOM (Belfast, Birmingham, Edinburgh, Penarth) 844 892 0111

Reference: <http://www.who.int/pcs/poisons/centre/directory/euro/en/>

This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters.

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