

Revision Date 20.09.2013
Revision 01



SAFETY DATA SHEET

2,2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE

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

1.1. Product identifier

Product name	2, 2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE
Product No.	110795
Synonyms, Trade Names	WAKO V 50, 2, 2' - AZOBIS(2-AMIDINOPROPANE)-DIHYDROCHLORIDE
CAS-No.	2997-92-4
EU Index No.	611-053-00-X
EC No.	221-070-0

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

Identified uses	Catalyst.
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Aquarius House 6 Midpoint Business Park Thornbury Bradford BD3 7AY +44 1274 267300 +44 1274 267306 sds@univar.com
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1.4. Emergency telephone number

Emergency Contact Number (Office Hours)

+44 1274 267346

Emergency Contact Number (Outside Office Hours)

+441865 407333

Sds No.	3056
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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Self-heat. 1 - H251
Human health	Acute Tox. 4 - H302; Skin Sens. 1 - H317
Environment	Aquatic Chronic 2 - H411

Classification (67/548/EEC)	Xn; R22 R43
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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

EC No.	221-070-0
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Label In Accordance With (EC) No. 1272/2008

2,2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE


Signal Word

Danger

Hazard Statements

H251	Self-heating: may catch fire.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements

P235+410	Keep cool. Protect from sunlight.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash contaminated skin thoroughly after handling.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P330	Rinse mouth.
P391	Collect spillage.
P407	Maintain air gap between stacks/pallets.
P420	Store away from other materials.
P501	Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name	2, 2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE
CAS-No.	2997-92-4
EU Index No.	611-053-00-X
EC No.	221-070-0

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

2,2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE

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

Ingestion

May cause stomach pain or vomiting.

Skin contact

Prolonged skin contact may cause redness and irritation.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Hydrogen cyanide (HCN). Hydrogen chloride (HCl). Oxides of: Nitrogen.

5.3. Advice for firefighters

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Do not smoke, use open fire or other sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush area with plenty of water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Avoid inhalation of high concentrations of dust. Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep in original container. Keep away from heat, sparks and open flame. Store in closed original container at temperatures between 0°C and 40°C.

Storage Class

Miscellaneous hazardous material storage.

7.3. Specific end use(s)

2,2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment



Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Use protective gloves.

Eye protection

Wear approved safety goggles.

Other Protection

Wear rubber apron. Wear rubber footwear.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Granular
Colour	White / off-white.
Odour	Odourless.
Melting point (°C)	160 - 169
Relative density	1.2135 @ 20C
Solubility Value (G/100G H ₂ O@20°C)	23
Decomposition temperature (°C)	180
Auto Ignition Temperature (°C)	> 180

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

2,2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE

Materials To Avoid

Strong acids. Strong oxidising substances.

10.6. Hazardous decomposition products

Hydrogen chloride (HCl). Oxides of: Nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50)

410 mg/kg Rat

Acute Toxicity (Dermal LD50)

5900 mg/kg Rat

Inhalation

May cause irritation to the respiratory system.

Ingestion

Harmful if swallowed.

Skin contact

Risk of sensitisation or allergic reactions among sensitive individuals.

Eye contact

May cause temporary eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

Acute Fish Toxicity

The product contains a substance which is toxic to aquatic organisms.

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 1 - 10 mg/l Daphnia magna

12.2. Persistence and degradability

Degradability

The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

Not determined.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not determined.

2,2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Do not puncture or incinerate even when empty.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General Full protective clothing should be worn when handling this product.

14.1. UN number

Un Number Road	3088
UN No. (IMDG)	3088
UN No. (ICAO)	3088

14.2. UN proper shipping name

Proper Shipping Name	SELF-HEATING SOLID, ORGANIC, N.O.S. (2, 2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE)
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	4.2
ADR/RID/ADN Class	Class 4.2: Substances liable to spontaneous combustion.
ADR Label No.	4.2
IMDG Class	4.2
ICAO Class/Division	4.2
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS	F-A, S-J
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2,2'AZObis[2-METHYLPROPIONAMIDINE]DIHYDROCHLORIDE

Emergency Action Code	1Y
Hazard No. (ADR)	40
Tunnel Restriction Code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Water hazard classification

WGK 2

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	20.09.2013
Revision	01
SDS No.	3056
Safety Data Sheet Status	Approved.
Date	20.09.2013
Signature	Jitendra Panchal

Risk Phrases In Full

R22	Harmful if swallowed.
R43	May cause sensitisation by skin contact.

Hazard Statements In Full

H251	Self-heating: may catch fire.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.