

# **Renewal Assessment Report**

**Dimethenamid-P**

**BAS 656 12 H**

**Volume 3 – B.4 Further information**

**Rev. 0 - 10 August 2016**

**Rapporteur Member State: Germany**  
**Co-Rapporteur Member State: Bulgaria**

## Version history

When	What
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## **B.4 Further information**

### **B.4.1 Safety intervals and other precautions to protect humans, animals and the environment**

Please refer to Volume 1 for pre-harvest intervals and risk assessment of operators, workers and bystanders.

### **B.4.2 Recommended methods and precautions**

#### **Reference:**

Anonymous (2013), Safety data sheet – Spectrum, BASF (BVL no 2759000)

#### **B.4.2.1 Procedures for cleaning application equipment and protective clothing**

##### **Reference:**

Stadler (2002), Effectiveness of procedures for cleaning application equipment and protective clothing (BAS 656 08 H), BASF 2002/1008716, BASF (BVL no 2630563)

Immediately after use, clean the spray equipment thoroughly. Drain the system completely and rinse spray tank, boom and nozzles two to three times with clean water until the foam and all traces of product have been removed.

Common agricultural practice implies cleaning of application equipment with water. This will remove any remainders of BAS 656 08 H so efficiently that no plant damage can be caused when the equipment is used subsequently for the treatment of different crops. Protective clothing will be cleaned effectively when washed with usual laundry detergents.

In the cleaning procedure, the active ingredient is diluted to such an extent that the cleaning is proved to be efficient enough. The worst case, which could occur would be, that an EC formulation with a high solvent content is sprayed after the use of BAS 656 08 H. A spray solution (acetonitrile/water mixture) had been prepared in the spraying equipment after the use of BAS 656 08 H and the described cleaning procedure. The contamination with the remaining BAS 656 08 H in the spraying device is about 1:38000. When the field sprayer is being cleaned with water after the use of BAS 656 08 H in the worst possible case, the contamination in the spray immediately afterwards is negligible.

Therefore cleaning the sprayer solely with water may be regarded as completely adequate in the case of BAS 656 08 H. It is not necessary to add cleaning agents.

These data are also valid for BAS 656 12 H.

#### **B.4.2.2 Handling procedures for the storage**

Advice on safe handling:	No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke.
Hygiene measures:	Hands and/or face should be washed before breaks and at the end of the shift.

Requirements for storage areas and containers:	Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.
Advice on common storage:	Segregate from foods and animal feeds. Further information on storage conditions: Keep away from heat. Protect from direct sunlight.
Suitable materials:	Substances to avoid: strong acids, strong bases, strong oxidising agents

### B.4.2.3 Transport

Land transport ADR/RID:	ADR	
	UN number	UN3082
	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA, DIMETHENAMID-P)
	Transport hazard class(es):	9, EHSM
	Packing group:	III
	Environmental hazards:	yes
	Special precautions for user:	Tunnel code: E
	RID	
	UN number	UN3082
	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA, DIMETHENAMID-P)
	Transport hazard class(es):	9, EHSM
	Packing group:	III
	Environmental hazards:	yes
	Special precautions for user:	None known
Maritime transport IMDG:	UN number:	UN 3082
	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA, DIMETHENAMID-P)
	Transport hazard class(es):	9, EHSM
	Packing group:	III
	Environmental hazards:	yes
	Marine pollutant:	YES
	Special precautions for user:	None known
Air transport IATA:	UN number:	UN 3082
	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA, DIMETHENAMID-P)

Transport hazard class(es):	9, EHS
Packing group:	III
Environmental hazards:	yes
Special precautions for user:	None known

#### **B.4.2.4 Fire**

Extinguishing media:	water spray, foam, dry powder, carbon dioxide
Special hazards arising from the substance or mixture:	carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, organochloric compounds The substances/groups of substances mentioned can be released in case of fire.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus and chemical-protective clothing.
Further information:	In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### **B.4.2.5 Protective clothing and equipment**

General protective and hygienic measures:	The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.
Respiratory protection:	Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).
Hand protection:	Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
Eye protection:	Safety glasses with side-shields (frame goggles) (e.g. EN 166)
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).

#### **B.4.3 Emergency measures in case of an accident**

##### **Reference:**

Anonymous (2013), Safety data sheet – Spectrum, BASF (BVL no 2763150)

### **B.4.3.1 Containment of spillages**

Person-related precaution measures:	Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.
Environment precautions:	Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.
Methods for cleaning up/taking up:	For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

### **B.4.3.2 Decontamination of areas, vehicles and buildings**

Please refer to B.4.3.1.

### **B.4.3.3 Disposal of damaged packaging, absorbents and other materials**

Product:	Must be sent to a suitable incineration plant, observing local regulations.
Contaminated packaging:	Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
Waste key for the unused product:	not stated

### **B.4.3.4 Protection of emergency worker and residents, including bystanders**

Use the recommended personal protective equipment.

### **B.4.3.5 First aid measures**

General information:	First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.
After eye contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
After skin contact:	Immediately wash thoroughly with soap and water, seek medical attention.
After inhalation:	Keep patient calm, remove to fresh air, seek medical attention.
After ingestion:	Immediately rinse mouth and then drink 200-300 mL of water, seek medical attention. Do not induce vomiting due to aspiration hazard.
Most important symptoms and effects, both acute and delayed:	The most important known symptoms and effects are described in the labelling. Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed:      Treat according to symptoms (decontamination, vital functions), no known specific antidote.

#### **B.4.4            Packaging, compatibility of the plant protection product with proposed packaging materials**

##### **B.4.4.1           Packaging**

The following containers are proposed for the product:

<b>0.15 L bottle:</b>	Material:	PA/PE (Coex)
	Capacity and size:	0.15 litres, cylindrical / approx. 63 mm diameter x 92 mm
	Type of closure and size of opening:	polyethylene screw cap, 42 mm inner diameter, HF-seal
	Wall Thickness:	min 0.7 mm
<b>0.25 L bottle:</b>	Material:	PA/PE (Coex)
	Capacity and size:	0.25 litres, cylindrical / approx. 63 mm diameter x 126 mm
	Type of closure and size of opening:	polyethylene screw cap, 42 mm inner diameter, HF-seal
	Wall Thickness:	min 0.7 mm
<b>0.5 L bottle:</b>	Material:	PA/PE (Coex)
	Capacity and size:	0.5 litres, cylindrical / approx. 69 mm diameter x 185.5 mm
	Type of closure and size of opening:	polyethylene screw cap, 42 mm inner diameter, HF-seal
	Wall Thickness:	min 0.7 mm
<b>1 L bottle:</b>	Material:	PA/PE (Coex)
	Capacity and size:	1 litres, cylindrical / approx. 88.5 mm diameter x 234 mm
	Type of closure and size of opening:	polypropylene/polyethylene screw cap, 42 mm inner diameter, Induction sealed
	Wall Thickness:	min 0.7 mm
<b>1 L eco-bottle:</b>	Material:	PA/PE (Coex)
	Capacity and size:	1 litres, cylindrical / approx. 88.5 mm diameter x 234 mm
	Type of closure and size of opening:	polypropylene/polyethylene screw cap, 54 mm inner diameter, gasket
	Wall Thickness:	min 0.7 mm
<b>3 L container:</b>	Material:	PA/PE (Coex)
	Capacity and size:	3 litres, rectangular / approx. 190 mm x 140 mm x



	Type of closure and size of opening: Wall Thickness:	241 mm polyethylene screw cap, 54 mm inner diameter, Induction sealed min 0.7 mm
<b>5 L container:</b>	Material: Capacity and size:  Type of closure and size of opening: Wall Thickness:	PA/PE (Coex) 5 litres, rectangular / approx. 190 mm x 140 mm x 313 mm polyethylene screw cap, 54 mm inner diameter, HF-seal min 0.7 mm
<b>5 L eco-container:</b>	Material: Capacity and size:  Type of closure and size of opening: Wall Thickness:	PA/PE (Coex) 5 litres, rectangular / approx. 185 mm x 136 mm x 313 mm polyethylene screw cap, 54 mm inner diameter, gasket min 0.7 mm
<b>10 L container:</b>	Material: Capacity and size:  Type of closure and size of opening: Wall Thickness:	PA/PE (Coex) 10 litres, rectangular / approx. 230 mm x 187 mm x 358 mm polyethylene screw cap, 54 mm inner diameter, Induction sealed min 0.7 mm
<b>10 L eco-container:</b>	Material: Capacity and size:  Type of closure and size of opening: Wall Thickness:	PA/PE (Coex) 10 litres, rectangular / approx. 230 mm x 187 mm x 358 mm polyethylene screw cap, 54 mm inner diameter, gasket min 0.7 mm

#### **B.4.4.2 Compatibility of the plant protection product with proposed packaging materials**

##### **Reference:**

Schreiner (2000), EU performance tests of BAS 656 08 H (1 L HDPE, Spec.-No. 775 5109, AGCHEM), BASF 2000/1012193, BASF (BVL no 2630564)

The tightness of the containers was successfully tested. They resist against drop and internal pressure. The permeation rate is less than 0.008 g/Lh.

ADR-test 3552 was performed for drop resistance, ADR 3553 for leak testing, ADR 3554 for hydrostatic test. Permeation testing was performed according to ADR 3556.

##### **Reference:**

Schreiner (2000), EU performance tests of BAS 656 08 H (1 L, Coex-Bottle, Spec.-No. 775 5108), BASF 2000/1012194, BASF (BVL no 2630565)

The tightness of the containers was successfully tested. They resist against drop and internal pressure. The permeation rate is less than 0.008 g/L h.

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**Reference:**

Kaestel (2002), Shelf life in original container of the formulation BAS 656 08 H. 24 month storage - physical properties, BASF 2002/1008942, PCF02209, BASF (BVL no 2630566)

Koenig (2002), Shelf life in original container at 20 °C and 30 °C of the formulation BAS 656 08 H. 24 month storage - analytical results, BASF 2002/1009034, PCF02201, BASF (BVL no 2630567)

The pack after storage was as initial. No significant weight change. The packaging is deemed to be appropriate for the storage of BAS 656 12 H.

## **B.4.5 Procedures for destruction or decontamination of the plant protection product and its packaging**

### **B.4.5.1 Neutralisation procedure**

BAS 656 12 H is a valuable, well tested plant protection product with outstanding end-use properties. Its pH is in a range between 4.3 and 6.8 in aqueous solution, comparable with many fruit juices and acid rain. Thus, the proposal of neutralisation procedures is not considered to be necessary. Any spilled product or contaminated soil/water is to be absorbed and disposed according to the use prescriptions.

### **B.4.5.2 Controlled incineration**

For purposes of disposal, combustion of BAS 656 12 H in a licensed incinerator is required. This method of disposal applies also to contaminated packages, which cannot be cleaned or reused.

Although it is possible to incinerate the product at lower temperatures, combustion at approximately 1100 °C with a residence time of about 2 seconds is advised.

By doing so, i.e., operating the incinerator according to the conditions laid down in Council Directive 94/67/EEC resp. directive 2000/76/EC of the European Parliament, one will achieve complete combustion and minimise the formation of undesired by-products in the off-gases.

Users are requested to triple rinse empty primary packages as described in the ECPA "Guidelines for the rinsing of agrochemical containers", 1993.

Pressure rinsing or integrated pressure rinsing of the packaging material achieves a similar or even better result. The rinsing water must be added to the spray liquid.

To minimise waste of packages it is recommended that empty and rinsed containers are delivered to local container collection stations. If these do not exist, empty and rinsed containers must be rendered unusable and disposed according to local regulations.

## B.4.6 References relied on

Data Point  EU as of 2014	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data Protection Claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N  If yes, old data point
KCP 4.2/1	Stadler R.	2002	Effectiveness of procedures for cleaning application equipment and protective clothing: Spectrum (BAS 656 08 H) 2002/1008716 BASF AG Agrarzentrum Limburgerhof, Limburgerhof, Germany Fed.Rep. Not GLP, unpublished BVL no. 2630563	N	Y	New data for AIR3 renewal	BASF	N III A 4.2
KCP 4.2	Anonymous	2013	Safety data sheet – Spectrum BASF SE, Ludwigshafen, Germany Fed.Rep. Not GLP, unpublished BVL no. 2759000	N	Y	New data for AIR3 renewal	BASF	
KCP 4.3	Anonymous	2013	Safety data sheet – Spectrum BASF SE, Ludwigshafen, Germany Fed.Rep. Not GLP, unpublished BVL no. 2763150	N	Y	New data for AIR3 renewal	BASF	
KCP 4.4/1	Schreiner B.	2000	EU performance tests of BAS 656 08 H (1 L HDPE, Spec.-No. 775 5109, AGCHEM) 2000/1012193 BASF AG, Ludwigshafen/Rhein, Germany Fed.Rep. Not GLP, unpublished BVL no. 2630564	N	Y	New data for AIR3 renewal	BASF	N III A 4.1
KCP 4.4/2	Schreiner B.	2000	EU performance tests of BAS 656 08 H (1 L, Coex-Bottle, Spec.-No. 775 5108) 2000/1012194 BASF AG, Ludwigshafen/Rhein, Germany Fed.Rep. Not GLP, unpublished BVL no. 2630565	N	Y	New data for AIR3 renewal	BASF	N III A 4.1
KCP 4.4/3	Kaestel R.	2002	Shelf life in original container of the formulation BAS 656 08 H. 24 month storage - physical properties 2002/1008942 BASF AG Agrarzentrum Limburgerhof, Limburgerhof, Germany Fed.Rep. GLP, unpublished BVL no. 2630566	N	Y	New data for AIR3 renewal	BASF	N III A 4.1
KCP 4.4/4	Koenig W.	2002	Shelf life in original container at 20°C and 30°C of the formulation BAS 656 08 H. 24 month storage - analytical results 2002/1009034 BASF AG Agrarzentrum Limburgerhof, Limburgerhof, Germany Fed.Rep. GLP, unpublished BVL no. 2630567	N	Y	New data for AIR3 renewal	BASF	N III A 4.1