

# **Renewal Assessment Report**

**Dimethenamid-P**

**BAS 830 01 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
10 August 2016	First version submitted to EFSA

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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 (2014), Safety data sheet – BAS 830 01 H, BASF (BVL no 2759001)

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

##### **Reference:**

Moran (2013), Effectiveness of procedures for cleaning application equipment and protective clothing - BAS 830 01 H, BASF 2013/1362043, BASF (BVL no 2630751)

The current report refers to a previous test performed with BAS 773 00 H. Compared to BAS 773 00 H, BAS 830 01 H also contains the active substances dimethenamid-P and quinmerac whose amount in the formulation differs. BAS 830 01 H does not contain the active substance metazachlor. The amount of water to be sprayed per hectare is reduced in the recommendation from 200 L down to 100 L, as well as the dose per hectare from 2.5 L to 1.5 L per hectare. As a consequence the ratio and amount of the active substances dimethenamid-P and quinmerac per ha are similar for both formulations. The composition of the additives is identical, only the amount was slightly modified. This variation is not expected to have negative effect on the penetration behaviour; therefore the cleaning process remains similar. For this reason another practical test is not necessary.

In the cleaning procedure, the active substance 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 the suspo-emulsion. This was simulated by sample 4. A spray solution (acetonitrile/water mixture) had been prepared in the spraying equipment after the described cleaning procedure. The dilution in the following spray solution with the active substance dimethenamid-P is 1:3048 and with quinmerac 1:2559 compared to the initially concentration.

Even if the test was performed with BAS 773 00 H and the water amount can be reduced from 200 to 100 L/ha the recommendation remains the same. When the field sprayer is being cleaned with water direct after the use of BAS 830 01 H in the worst case scenario, 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 830 01 H. It is not necessary to add cleaning agents.

Common agricultural practice implies cleaning of application equipment with water direct after use. This will remove any remainders of BAS 830 01 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.

### **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:	No special precautions necessary. The substance/product is non-combustible. The product is not explosive.
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 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 DIMETHENAMID-P)
Maritime transport IMDG:	Transport hazard class(es):	9, EHSM
	Packing group:	III
	Environmental hazards:	yes
	Special precautions for user:	None known
	UN number:	UN 3082
	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DIMETHENAMID-P)
	Transport hazard class(es):	9, EHSM
	Packing group:	III
	Environmental hazards:	yes
	Marine pollutant:	YES
Air transport IATA:	Special precautions for user:	None known
	UN number:	UN 3082
	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

	LIQUID, N.O.S. (contains DIMETHENAMID-P)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
Special precautions for user:	None known

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

Extinguishing media:	carbon dioxide, dry powder, water spray, foam
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 (2014), Safety data sheet – BAS 830 01 H, BASF (BVL no 2763151)

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

Person-related precaution measures:	Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.
Environment precautions:	Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.
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 labelled 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:	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:	Wash thoroughly with soap and water.
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.
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:	HDPE
	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:	HDPE
	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:	HDPE
	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:	HDPE
	Capacity and size:	1 litre, Cylindrical / approx. 88.5 mm diameter x 234 mm
	Type of closure and size of opening:	polyethylene screw cap, 42 mm inner diameter, Induction sealed
	Wall Thickness:	min 0.7 mm
<b>1 L eco-bottle:</b>	Material:	HDPE
	Capacity and size:	1 litre, Cylindrical / approx. 88.5 mm diameter x 234 mm
	Type of closure and size of opening:	polyethylene screw cap, 54 mm inner diameter, gasket
	Wall Thickness:	min 0.7 mm
<b>3 L container:</b>	Material:	HDPE
	Capacity and size:	3 litres, Rectangular / approx. 190 mm x 140 mm x 241 mm
	Type of closure and size of opening:	polyethylene screw cap, 54 mm inner diameter, Induction sealed
	Wall Thickness:	min 0.7 mm
<b>5 L container:</b>	Material:	HDPE
	Capacity and size:	5 litres, Rectangular / approx. 190 mm x 140 mm x 313 mm
	Type of closure and size of opening:	polyethylene screw cap, 54 mm inner diameter, Polyethylene screw cap
	Wall Thickness:	min 0.7 mm



<b>5 L eco-container:</b>	Material:	HDPE
	Capacity and size:	5 litres, Rectangular / approx. 185 mm x 136 mm x 313 mm
	Type of closure and size of opening:	polyethylene screw cap, 54 mm inner diameter, gasket
	Wall Thickness:	min 0.7 mm
<b>10 L container:</b>	Material:	HDPE
	Capacity and size:	10 litres, Rectangular / approx. 230 mm x 165 mm x 375 mm
	Type of closure and size of opening:	polyethylene screw cap, 54 mm inner diameter, Induction seal
	Wall Thickness:	min 0.7 mm
<b>10 L eco-container:</b>	Material:	HDPE
	Capacity and size:	10 litres, Rectangular / approx. 230 mm x 187 mm x 358 mm
	Type of closure and size of opening:	polyethylene screw cap, 54 mm inner diameter, gasket
	Wall Thickness:	min 0.7 mm
<b>50 L container:</b>	Material:	HDPE
	Capacity and size:	50 litres, Cylindrical / approx. 380 mm x 618 mm (d x h)
	Type of closure and size of opening:	polyethylene screw cap + valve, 52 mm inner diameter gasket
	Wall Thickness:	min 0.7 mm

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

##### **Reference:**

Maurer (2013), EU performance test of BAS 830 01 H, Packaging made of HDPE, BASF 2013/1115239, BASF (BVL no 2630753)

##### Type of test

Verification of the chemical compatibility using HDPE with dangerous goods. Test to be carried out in accordance to the test procedures for plastic receptacles (described in the annex of chapter 6.1 of RID) or according to DIN EN ISO 16101 annex 8. It shall be proved by laboratory tests that the damaging effects of the intended product on test specimen does not exceed the damaging effects of the model liquid Pfl-Fr 2344.

##### Results

The damaging effects of BAS 830 01 H on test specimen made of HDPE does not exceed the damaging effects of the Model liquid Pfl-Fr 2344. The chemical compatibility of HDPE with the intended product in comparison with Model liquid Pfl-Fr 2344 is verified.

Permeation: Rate of permeation: < 0.008 g/Lh; approved

BAS 830 01 H can be packed in packaging made of HDPE, in case where there is an UN-approval for these packagings for Model liquid Pfl-Fr 2344 and there is no conflict on other transport regulations. The maximum allowable values of vapour pressure and density, given in the certificate of approval, may not be exceeded.

**Reference:**

Morgan (2013), Physical and chemical properties of BAS 830 01 H: Accelerated storage stability up to 2 weeks at 54 °C stored in a high-density polyethylene (HDPE) bottle, BASF 2013/1252863, MX/13/004/1, BASF (BVL no 2630754)

No adverse effects of the product on the original container were detected.

The container is considered as appropriate for the plant protection product BAS 830 01 H.

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

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

BAS 830 01 H is a valuable, well-tested plant protection product with outstanding end-use properties. Its pH is in a range between 4-5 (neat) and 3-4 in aqueous solution. 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 830 01 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	Moran D.	2013	Effectiveness of procedures for cleaning application equipment and protective clothing - BAS 830 01 H 2013/1362043 BASF SE Agricultural Center Limburgerhof, Limburgerhof, Germany Fed.Rep. Not GLP, unpublished BVL no. 2630751	N	Y	New data for AIR3 renewal	BASF	N III A 4.4
KCP 4.2	Anonymous	2014	Safety data sheet – BAS 830 01 H BASF SE, Ludwigshafen, Germany Fed.Rep. Not GLP, unpublished BVL no. 2759001	N	Y	New data for AIR3 renewal	BASF	
KCP 4.3	Anonymous	2014	Safety data sheet – BAS 830 01 H BASF SE, Ludwigshafen, Germany Fed.Rep. Not GLP, unpublished BVL no. 2763151	N	Y	New data for AIR3 renewal	BASF	
KCP 4.4/1	Maurer	2013	EU performance test of BAS 830 01 H, Packaging made of HDPE 2013/1115239 BASF SE, Ludwigshafen/Rhein, Germany Fed.Rep. Not GLP, unpublished BVL no. 2630753	N	Y	New data for AIR3 renewal	BASF	N III A 4.1
KCP 4.4/2	Morgan L.	2013	Physical and chemical properties of BAS 830 01 H: Accelerated storage stability up to 2 weeks at 54 °C stored in a high-density polyethylene (HDPE) bottle 2013/1252863 Battelle UK Ltd., Havant Hampshire PO9 1SA, United Kingdom GLP, unpublished BVL no. 2630754	N	Y	New data for AIR3 renewal	BASF	N III A 4.1