

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DEVELOPMENT PRODUCTS

**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,
PG III**

Version 1 / EU
SDS000019288

1/9

Revision Date: 2016-05-30

Print Date: 2016-05-30

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

1.1 Product identifier

Product code	SP102000029998 (UVP: 84914894)
Usage	HERBICIDE This product is for experimental uses only.
Product description	ACL+DFF SC 500+100 G ACL+DFF AE F068300 500 SC + AE F08865 100

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

Usage	HERBICIDE This product is for experimental uses only.
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1.3 Details of the supplier of the safety data sheet

Supplier	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein Germany
Telefax:	+49(0)2173384967
Responsible Department	Bayer CropScience AG BCS AG-R&D-D-AD-GFTO Global Sample Logistics Michael Jorzick Phone: +49(0)2173-38-2090 (during business hours only) Email: michael.jorzick@bayer.com

1.4 Emergency telephone no.

Emergency telephone no.	Global Incident Response Hotline +1 (760) 602-8892 ("3E Company" for Bayer CropScience)
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Preliminary classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Carcinogenicity: Category 2
H351 Suspected of causing cancer.

Specific target organ toxicity - repeated exposure: Category 2

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DEVELOPMENT PRODUCTS

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,

PG III

2/9

Version 1 / EU
SDS000019288

Revision Date: 2016-05-30
Print Date: 2016-05-30

H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
Acute toxicity: Category 4	
H312	Harmful in contact with skin.
Acute toxicity: Category 4	
H302	Harmful if swallowed.
Eye irritation: Category 2	
H319	Causes serious eye irritation.
Skin irritation: Category 2	
H315	Causes skin irritation.
Skin sensitisation: Category 1	
H317	May cause an allergic skin reaction.
Acute aquatic toxicity: Category 1	
H400	Very toxic to aquatic life.
Chronic aquatic toxicity: Category 2	
H410	Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Precautionary labeling used for hazard communication in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.



Signal word: Warning

Hazard statements

H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
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DEVELOPMENT PRODUCTS**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,
PG III****3/9**Version 1 / EU
SDS000019288Revision Date: 2016-05-30
Print Date: 2016-05-30

P280 Wear protective gloves and eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local regulation.

Hazard statements

This product is for experimental uses only. The product has not been completely analysed and all of the hazards may not be known. Please use caution while handling this product.

2.3 Other hazards

No other hazards known.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures****Chemical nature****PHENOXYANILINE**

The mixture consists of one or more ingredients of unknown toxicity., Research product

Hazardous components

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification Regulation (EC) No 1272/2008	Conc. [%]
Aclonifen	74070-46-5	Carc. 2, H351 Skin Sens. 1, H317 Aquatic Chronic 1, H410	<45
Diflufenican	83164-33-4	Aquatic Chronic 3, H412	<10
Sulfonated aromatic polymer, sodium salt	68425-94-5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	< 5

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures****General advice**

Move out of dangerous area. Remove contaminated clothing immediately and dispose of safely. Place and transport victim in stable position (lying sideways).

Inhalation

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

DEVELOPMENT PRODUCTS

**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,
PG III**

4/9

Version 1 / EU
SDS000019288

Revision Date: 2016-05-30
Print Date: 2016-05-30

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.
4.2 Most important symptoms and effects, both acute and delayed	
Symptoms	To date no symptoms are known.
4.3 Indication of any immediate medical attention and special treatment needed	
Treatment	Treat symptomatically. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO₂), Foam, Sand

5.2 Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire.

5.3 Advice for firefighters

Special protective equipment for fire-fighters In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Use personal protective equipment.

6.2 Environmental precautions Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4 Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

DEVELOPMENT PRODUCTS

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,

PG III

5/9

Version 1 / EU

SDS000019288

Revision Date: 2016-05-30

Print Date: 2016-05-30

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Use only in area provided with appropriate exhaust ventilation.
Hygiene measures	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt). Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place.
Advice on common storage	Keep away from food, drink and animal feedingstuffs.
German storage class	10 Combustible liquids not in Storage Class 3
7.3 Specific end uses	Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No control parameters known.

8.2 Exposure controls

Personal protective equipment

Respiratory protection	If product is handled while not enclosed, and if contact may occur: Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
Hand protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
Skin and body protection	Wear standard coveralls and Category 3 Type 4 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If there is a risk of significant exposure, consider a higher protective



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DEVELOPMENT PRODUCTS

**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,
PG III**

Version 1 / EU
SDS000019288

6/9

Revision Date: 2016-05-30

Print Date: 2016-05-30

type suit.

General protective measures

If product is handled while not enclosed, and if contact may occur:
Complete suit protecting against chemicals

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Liquid
Flash point	>60 °C
Density	1,25
Water solubility	dispersible

9.2 Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous decomposition products No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity ATE 300 - < 2.000 mg/kg
ATE – acute toxicity estimate

Acute dermal toxicity ATE 1.000 - < 2.000 mg/kg
ATE – acute toxicity estimate

Skin irritation Irritating to skin.

Eye irritation Irritating to eyes.

Sensitisation Sensitising

Further information

This product is for experimental uses only.

A possible chronic toxicity, carcinogenicity, mutagenicity or reproductive toxicity cannot be excluded.
No further toxicological information is available.



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DEVELOPMENT PRODUCTS

**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,
PG III**

Version 1 / EU
SDS000019288

7/9

Revision Date: 2016-05-30
Print Date: 2016-05-30

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

12.2 Persistence and degradability

Biodegradability Not applicable for this mixture.

12.3 Bioaccumulative potential

Bioaccumulation Not applicable for this mixture.

12.4 Mobility in soil

Mobility in soil Not applicable for this mixture.

12.5 Results of PBT and vPvB assessment

Not relevant as no chemical safety report is necessary.

12.6 Other adverse effects

Additional ecological information This product is for experimental uses only.
Ecological data are not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging Not completely emptied packagings should be disposed of as hazardous waste.

Waste key for the unused product **020108** agrochemical waste containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACLONIFEN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Hazard no.	90
Tunnel Code	E

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DEVELOPMENT PRODUCTS

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,

PG III

8/9

Version 1 / EU
SDS000019288

Revision Date: 2016-05-30
Print Date: 2016-05-30

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACLONIFEN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES

IATA

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACLONIFEN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

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

Further information

WHO-classification: II (Moderately hazardous)

Water contaminating class WGK 3 highly water endangering
(Germany)

Other regulations

TRGS 510 Storage of hazardous substances in movable containers
BG Data Sheet M 004 "Irritant substances / Corrosive substances"
BG Data Sheet M 050 "Handling of Hazardous Substances"
BG Data Sheet M 053 "General Protective Measures for the handling of hazardous substances"

15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 453/2010 amending Regulation (EU) No 1907/2006 (and any subsequent amendments). This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DEVELOPMENT PRODUCTS

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN 3082, CL.9,

PG III

9/9

Version 1 / EU

SDS000019288

Revision Date: 2016-05-30

Print Date: 2016-05-30

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Important Note

For research use only.

The data in this safety data sheet - with exception of material number, material designations, density and technical description - were assigned to this product based on a template material for the current dispatch only.

This data does not signify any warranty with regard to the product properties.

This safety data sheet automatically loses its validity, if a specific material related safety data sheet is provided by Bayer CropScience Global QHSE.

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 453/2010.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.