

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Dr. Beckmann Appliance Descaler
Formulation-No. : 012-09
Type of product : Detergent

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Use of the substance/mixture : Descaler

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

delta pronatura - Dr. Krauss & Dr. Beckmann KG
Kurt-Schumacher-Ring 15-17
63329 Egelsbach - Germany
T int+49-(0)6103-4045-0 - F int+49-(0)6103-4045-190

Email competent person

sds@kft.de

Supplier

Polished Brands
Suite 8, 11 Beach Street
Port Melbourne VIC 3207 - Australia
T + 61 (0) 3 9645 2555

1.4. Emergency telephone number

Emergency number : Poisons Information Centre Australia: 13 11 26
Call 000 if there is a life-threatening incident.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1 H290
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP)

: Warning

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according to Regulation (EC) No. 1907/2006 (REACH)

Hazard statements (CLP)	: H290 - May be corrosive to metals. H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P302+P352 - IF ON SKIN: Wash with plenty of water. P332+P313 - If skin irritation occurs: Get medical advice/attention.
Extra phrases	: Substances or mixtures classified as corrosive to metals but not corrosive to skin and/or eyes which are in the finished state as packaged for consumer use do not require on the label the hazard pictogram GHS05. (1.3.6. 487/2013). If medical advice is needed, have product container or label at hand.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

2.3. Other hazards

PBT: not relevant – no registration required
vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Aqueous solution of

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sulphamic acid	(CAS-No.) 5329-14-6 (EC-No.) 226-218-8 (EC Index-No.) 016-026-00-0 (REACH-no) 01-2119488633-28-xxxx	>=10 - <20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Get medical advice if skin irritation persists.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Spit. Drink plenty of water. Get immediate medical advice/attention.

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

Symptoms/effects after skin contact	: Skin irritation.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media	: Foam, powder, carbon dioxide (CO ₂), water spray. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Non flammable.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Sulphur oxides. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions	: Do not allow run-off from fire fighting to enter drains or water courses.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ensure adequate air ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Avoid sub-soil penetration.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information	: Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Do not breathe dust. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep cool.
Incompatible materials	: Aluminium. Metals.
Information about storage in one common storage facility	: Keep away from food, drink and animal feeding stuffs. Store away from alkalis, oxidizing materials.
Storage area	: Store on an acid resistant underground.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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according to Regulation (EC) No. 1907/2006 (REACH)

sulphamidic acid (5329-14-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	70.5 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17.4 mg/m ³
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.8 mg/l
PNEC aqua (marine water)	0.18 mg/l
PNEC aqua (intermittent, freshwater)	0.48 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	8.36 mg/kg dwt
PNEC sediment (marine water)	0.84 mg/kg dwt
PNEC (Soil)	
PNEC soil	5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	20 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Wash hands before break and at end of works. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Chemically resistant protective gloves. Acid-resistant protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber	6 (> 480 minutes)	0,5	3 (> 0.65)	EN ISO 374

Eye protection:

Chemical goggles or face shield. EN 166. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

Respiratory protection:

Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

Other information:

Take off immediately all contaminated clothing. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product. Apply emollient cream.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: colourless.
Odour	: acetic.
Odour threshold	: No data available

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pH	: ≈ 0.5
Relative evaporation rate (butylacetate=1)	: (Water)
Relative evaporation rate (ether=1)	: (Water)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not determined
Flash point	: Not applicable
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: (Water)
Relative vapour density at 20 °C	: (Water)
Relative density	: No data available
Density	: ≈ 1.06 g/m ³
Solubility	: Water: Miscible
Log Pow	: Not applicable
Viscosity, kinematic	: (Water)
Viscosity, dynamic	: (Water)
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Reacts violently with : Strong bases.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

sulphamidic acid (5329-14-6)

LD50 oral rat	2140 mg/kg (female)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)

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Skin corrosion/irritation	: Causes skin irritation. pH: ≈ 0.5
Additional information	: No classification in category: Skin Corr. 1
Serious eye damage/irritation	: Causes serious eye irritation. pH: ≈ 0.5
Additional information	: BCOP Test (Bovine Corneal Opacity and Permeability Test) Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential adverse human health effects and symptoms	: Corrosivity: based upon skin corrosion test data, classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: May cause pH changes in aqueous ecological systems. Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

sulphamidic acid (5329-14-6)	
LC50 fish 1	70.3 mg/l (96 h; Pimephelas promelas; (OECD 203 method))
EC50 Daphnia 1	71.6 mg/l (48 h; Daphnia magna; (OECD 202 method))
ErC50 (algae)	33.8 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method))
NOEC chronic fish	>= 60 mg/l (34 d; Danio rerio; (OECD 210 method))
NOEC chronic crustacea	19 mg/l (21 d; Daphnia magna; (OECD 211 method))
NOEC chronic algae	18 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method))

12.2. Persistence and degradability

Dr. Beckmann Appliance Descaler	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

sulphamidic acid (5329-14-6)	
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

Dr. Beckmann Appliance Descaler	
Log Pow	Not applicable
Bioaccumulative potential	The product has not been tested.

sulphamidic acid (5329-14-6)	
Log Pow	Not applicable
Bioaccumulative potential	Not applicable.

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12.4. Mobility in soil

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Ecology - soil

The product has not been tested.

sulphamidic acid (5329-14-6)

Ecology - soil

Low mobility (soil).

12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Component

sulphamidic acid (5329-14-6)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Disposal must be done according to official regulations. European waste catalogue.
Sewage disposal recommendations	: Do not allow into drains or water courses.
Product/Packaging disposal recommendations	: Do not dispose of with domestic waste.
European List of Waste (LoW) code	: 06 01 06* - other acids 20 01 29* - detergents containing dangerous substances
HP Code	: HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3264	UN 3264	UN 3264	UN 3264	UN 3264
14.2. UN proper shipping name				
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphamidic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphamidic acid)	Corrosive liquid, acidic, inorganic, n.o.s. (sulphamidic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphamidic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphamidic acid)
Transport document description				
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphamidic acid), 8, III, (E)	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphamidic acid), 8, III	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (sulphamidic acid), 8, III	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphamidic acid), 8, III	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphamidic acid), 8, III
14.3. Transport hazard class(es)				
8	8	8	8	8
				

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14.4. Packing group

III

III

III

III

III

14.5. Environmental hazards

Dangerous for the environment: No

Dangerous for the environment: No
Marine pollutant: No

Dangerous for the environment: No

Dangerous for the environment: No

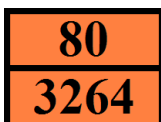
Dangerous for the environment: No

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C1
Special provisions (ADR) : 274
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B

Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage and handling (IMDG) : SW2

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3

Inland waterway transport

Classification code (ADN) : C1
Special provisions (ADN) : 274
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T

Rail transport

Classification code (RID) : C1
Special provisions (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Transport category (RID) : 3
Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on
3(b)	Dr. Beckmann Appliance Descaler

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Detergent Regulation : Labelling of contents:	
Component	%
phosphonates, phosphates	<5%

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
1.4	Emergency number	Modified	
Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC50	Median effective concentration		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		

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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency). MSDSs of the suppliers. Information provided by the manufacturer.

Department issuing data specification sheet: : KFT Chemieservice GmbH
Im Leuschnerpark. 3 64347 Griesheim
Germany

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500
Safety Data Sheet Service: +49 6155 8981-522

Contact person : Dr. Daniela Krimm

Other information : Version/s 1.00 - 7.00 is/are not available in this language.

Full text of H- and EUH-statements:

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Met. Corr. 1	H290	Expert judgment
Skin Irrit. 2	H315	Expert judgment
Eye Irrit. 2	H319	Expert judgment

KFT SDS EU 02

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.