

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : DS 105 - Light Duty Acid Detergent  
Product group : Trade product

#### 1.2. Recommended use and restrictions on use

Recommended use : Washing and cleaning products (including solvent based products)

#### 1.3. Supplier

##### Manufacturer

AxSys Direct Manufacturing  
4523 97 Street  
T6E 5Y8 Edmonton, AB - Canada  
T 780-436-2606 - F 780-434-5904

#### 1.4. Emergency telephone number

Emergency number : FOR EMERGENCIES INVOLVING DANGEROUS GOODS CALL CANUTEC'S 24HR NUMBER  
613-996-6666

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-CA)

Skin corrosion/irritation, Category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Full text of H statements : see section 16		

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS-CA) :

Danger

Hazard statements (GHS-CA) :

H314 - Causes severe skin burns and eye damage.

Precautionary statements (GHS-CA) :

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.  
P321 - Specific treatment (see supplemental first aid instruction on this label)  
P363 - Wash contaminated clothing before reuse.

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P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-CA)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
sulphamic acid	acide amidosulfurique / amidosulfonic acid / Amidosulfosäure / amidosulfuric acid / aminosulfonic acid / Aminosulfosäure / cinnasorb activator / imidosulfonic acid / kwas amidosiarkowy(VI) / sulfamic acid / sulfamidic acid / sulfaminic acid / Sulfamsäure / sulphamic acid / sulphamidic acid	CAS-No.: 5329-14-6	1 – 10	Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

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ammonium hydrogen difluoride	acid ammonium fluoride / acid ammoniumfluoride, solid / ammonium acid fluoride / ammonium acid fluoride, solid / ammonium bifluoride / ammonium bifluoride, solid / ammonium difluoride / ammonium fluoride ((NH <sub>4</sub> )(HF <sub>2</sub> )) / ammonium fluoride compound with hydrogen fluoride / ammonium hydrofluoride / ammonium hydrogen bifluoride / ammonium hydrogen difluoride / ammonium hydrogen fluoride / ammonium hydrogen fluoride, solid / ammonium hydrogendifluoride / ammonium hydrogenfluoride / ammonium hydrogénodifluorure / Ammoniumbifluorid 96/98% / Ammoniumbifluorid, kristallin / Ammoniumbifluorid, Schuppen B / Ammoniumbifluorid, Schuppen F / ammoniumbifluoride / Ammoniumhydrogenbifluorid / ammoniumvätedifluorid / amoniohidrogenofluoruro / bifluoride of ammonium,	CAS-No.: 1341-49-7	1 – 5	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314
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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
	solid / difluorură acidă de amoniu / difluorure acide d'ammonium, solide / difluorure d'ammonium, solide / fluoram, solide / fluorek amonu fluorowodór (1/1) / fluorure d'ammonium, solide / fluorure double d'hydrogène et d'ammonium / hidrogenofluorură de amoniu / matt salt / matt salt, solid / saures Fluorammonium / saures Fluorammonium, fest			

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
phosphoric acid, conc=85%	acide orthophosphorique, conc=85% / acide phosphorique, conc=85% / acide phosphorique, normal, conc=85% / acide phosphorique, ordinaire, conc=85% / acido ortofosforico, conc=85% / ácido ortofosfórico, conc=85% / ácido ortofósforico, conc=85% / orthofosforzuur, conc=85% / orthophosphoric acid, conc=85% / Orthophosphorsäure, Konz=85% / orthophosphorsyre, konc=85% / ortofosforihappo, kons=85% / ortofosforsyra, konc=85% / Phosphorsyrup, Konz=85% / phosphoric syrup, conc=85% / phosphorsyre, konc=85% / Thermische Phosphorsäure, Konz=85%	CAS-No.: 7664-38-2	1 – 5	Skin Corr. 1B, H314
Bio-Soft N91-8	C9-C11 primair alcohol ethoxylaat (=dobanol 91-6)	CAS-No.: 68439-46-3	4	Acute Tox. 4 (Oral), H302

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

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First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
First-aid measures general	: Call a physician immediately.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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### 5.2. Unsuitable extinguishing media

No additional information available

### 5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up.
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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Protective gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: light red
Odour	: cherry
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available

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Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ammonium hydrogen difluoride (1341-49-7)	
LD50 oral rat	130 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value)
ATE CA (oral)	130 mg/kg bodyweight

sulphamic acid (5329-14-6)	
LD50 oral rat	2065 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value)
ATE CA (oral)	2065 mg/kg bodyweight

Bio-Soft N91-8 (68439-46-3)	
LD50 oral rat	> 1000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE CA (oral)	500 mg/kg bodyweight

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after skin contact	: Burns.



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Symptoms/effects after eye contact : Serious damage to eyes.  
Symptoms/effects after ingestion : Burns.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Before neutralisation, the product may represent a danger to aquatic organisms.  
Acute aquatic toxicity : Not classified  
Chronic aquatic toxicity : Not classified

ammonium hydrogen difluoride (1341-49-7)	
LC50 - Fish [1]	421.4 mg/l (96 h, Pisces, Estimated value)
sulphamic acid (5329-14-6)	
LC50 - Fish [1]	70.3 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value)
EC50 - Daphnia [1]	71.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value)
ErC50 algae	48 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	0.1 (Experimental value)
phosphoric acid, conc=85% (7664-38-2)	
LC50 - Fish [1]	138 mg/l (Pisces)

#### 12.2. Persistence and degradability

ammonium hydrogen difluoride (1341-49-7)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable (inorganic)
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
sulphamic acid (5329-14-6)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
phosphoric acid, conc=85% (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

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phosphoric acid, conc=85% (7664-38-2)	
BOD (% of ThOD)	Not applicable
Bio-Soft N91-8 (68439-46-3)	
Persistence and degradability	Biodegradability in water: no data available.

### 12.3. Bioaccumulative potential

ammonium hydrogen difluoride (1341-49-7)	
Bioaccumulative potential	Not bioaccumulative.
sulphamic acid (5329-14-6)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	0.1 (Experimental value)
phosphoric acid, conc=85% (7664-38-2)	
Bioaccumulative potential	Does not contain bioaccumulative component(s).
Bio-Soft N91-8 (68439-46-3)	
Bioaccumulative potential	No bioaccumulation data available.

### 12.4. Mobility in soil

ammonium hydrogen difluoride (1341-49-7)	
Ecology - soil	No (test)data on mobility of the substance available.
sulphamic acid (5329-14-6)	
Ecology - soil	No (test)data on mobility of the substance available. Toxic to flora.
Partition coefficient n-octanol/water (Log Pow)	0.1 (Experimental value)
phosphoric acid, conc=85% (7664-38-2)	
Ecology - soil	No (test)data on mobility of the component(s) available.

### 12.5. Other adverse effects

Ozone : Not classified

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

### 14.1. UN number

UN-No. (TDG) : UN1805  
DOT NA no. : Not applicable  
UN-No. (IMDG) : 1805  
UN-No. (IATA) : Not applicable

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### 14.2. UN proper shipping name

Proper Shipping Name (TDG)	: PHOSPHORIC ACID, LIQUID
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: PHOSPHORIC ACID SOLUTION
Proper Shipping Name (IATA)	: Not applicable

### 14.3. Transport hazard class(es)

#### TDG

Transport hazard class(es) (TDG)	: 8
Hazard labels (TDG)	: 8



#### DOT

Transport hazard class(es) (DOT)	: Not applicable
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#### IMDG

Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8



#### IATA

Transport hazard class(es) (IATA)	: Not applicable
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### 14.4. Packing group

Packing group (TDG)	: III
Packing group (DOT)	: Not applicable
Packing group (IMDG)	: III
Packing group (IATA)	: Not applicable

### 14.5. Environmental hazards

Other information	: No supplementary information available.
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### 14.6. Special precautions for user

#### TDG

UN-No. (TDG)	: UN1805
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L

#### DOT

No data available

#### IMDG

Special provisions (IMDG)	: 223
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03

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Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Miscible in water. Mildly corrosive to most metals.

### IATA

No data available

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

**Bio-Soft N91-8 (68439-46-3)**

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

**Bio-Soft N91-8 (68439-46-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## SECTION 16: Other information

SDS Major/Minor : None

### Full text of H-statements:

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects.

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While the descriptions, data and information contained herein are presented in good faith and believed to be current, it is provided for guidance only. Because there are so many factors that may affect processing, application or other use, we recommended that you perform an assessment to determine the suitability of the product for your particular purpose prior to use. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding the product described. We assume NO responsibility for any injuries sustained from misuse or misapplication of this product or that might be experienced due to inhalation, ingestion, absorption or other contact with this product. In no case shall the descriptions, information or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such, it has been given and accepted at your risk.