SAFETY DATA SHEET

Creation Date 15-Mar-2010 **Revision Date** 15-Mar-2010 **Revision Number** *1*

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

Product Name **Adipoyl chloride**
Cat No. **173180000; 173180050; 173181000; 173185000**
Synonyms Hexanedioyl dichloride.
Recommended Use Laboratory chemicals

Company Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium

Emergency Telephone Number

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

2. HAZARDS IDENTIFICATION

The product is classified as dangerous in accordance with Directive 1999/45/EC or 67/548/EEC.

Properties Affecting Health Lachrymator (substance which increases the flow of tears)..

R -phrase(s)
R14 - Reacts violently with water
R29 - Contact with water liberates toxic gas
R34 - Causes burns
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	Weight %	EC No.	Classification
Adipoyl chloride 111-50-2	>95	EEC No. 203-876-4	R14-29 Xn;R20/21/22 C;R34

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
CO_2, dry chemical, dry sand, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons
Water

Specific Hazards Arising from the Chemical
Reacts violently with water. Contact with water liberates toxic gas. Combustible material.

Protective Equipment and Precautions for Firefighters
Thermal decomposition can lead to release of irritating gases and vapors. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Flash Point	72°C / 161.6°F
Method	No information available.
Autoignition Temperature	No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
Environmental Precautions	Should not be released into the environment.
Methods for Containment and Clean Up	Soak up with inert absorbent material Keep in suitable and closed containers for disposal Do not expose spill to water

7. HANDLING AND STORAGE

Handling	Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not allow contact with water. Do not breathe vapors/dust. Do not ingest.
Storage	Keep away from water. Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Store under an inert atmosphere.
Specific use(s)	No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

The product does not contain any hazardous materials with occupational exposure limits established.

Occupational exposure controls

Engineering Measures	Use only under a chemical fume hood Ensure that eyewash stations and safety showers are close to the workstation location

Personal Protective Equipment

Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Eye Protection	Tightly fitting safety goggles
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Hand Protection	Protective gloves

Hygiene Measures	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.
Environmental exposure controls	No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown
odor	pungent
pH	No information available.
Vapor Pressure	2 mmHg @ 20 °C
Vapor Density	No information available.
Boiling Point/Range	105 - 107°C / 221 - 224.6°F2 mmHg
Melting Point/Range	No information available.
Flash Point	72°C / 161.6°F
Evaporation Rate	No information available.
Water Solubility	reacts
Specific Gravity	1.250
Molecular Formula	C6 H8 Cl2 O2
Molecular Weight	183.03

10. STABILITY AND REACTIVITY

Stability	Reacts violently with water. Moisture sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water. Exposure to moisture.
Incompatible Materials	Strong oxidizing agents, Water, Reducing agents, Bases, Alcohols, Amines
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride gas
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	Reacts violently with water..

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Neurological Effects No information available.

Mutagenic Effects No information available.

Reproductive Effects No information available.

Developmental Effects	No information available.
Target Organs	Skin, Respiratory system, Eyes, Gastrointestinal tract (GI).
Other Adverse Effects	The toxicological properties have not been fully investigated..

12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

Persistence and Degradability	No information available
Bioaccumulative Potential	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	UN2922
Hazard Class	8
Subsidiary Hazard Class	6.1
Packing Group	II
Proper Shipping Name	Corrosive liquid, toxic, n.o.s

ADR

UN-No	UN2922
Hazard Class	8
Subsidiary Class	6.1
Packing Group	II
Proper Shipping Name	Corrosive liquid, toxic, n.o.s

IATA

UN-No	UN2922
Hazard Class	8

14. TRANSPORT INFORMATION

Subsidiary Hazard Class	6.1
Packing Group	II
Proper Shipping Name	Corrosive liquid, toxic, n.o.s

15. REGULATORY INFORMATION

The product is classified as dangerous in accordance with Directive 1999/45/EC or 67/548/EEC

Labelling

Symbol(s) C - Corrosive

R -phrase(s)
R14 - Reacts violently with water
R29 - Contact with water liberates toxic gas
R34 - Causes burns
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S -phrase(s)
S 8 - Keep container dry
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Adipoyl chloride	203-876-4	-		X	X	-	X	X	X	X	-

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3
R14 - Reacts violently with water
R29 - Contact with water liberates toxic gas
R34 - Causes burns
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

16. OTHER INFORMATION

Prepared By	Regulatory Affairs
Creation Date	15-Mar-2010
Revision Date	15-Mar-2010
Revision Summary	"***", and red text indicates revision
Restrictions on use	No information available.
Training advice	No information available.
Literary reference	No information available.

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet