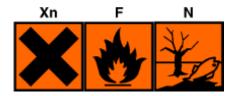


Creation Date 14-Sep-2009	Revision Date 14-Sep-2009	Revision Number 1
1. IDENTIFICA	TION OF THE SUBSTANCE/PREPARATION AN	D OF THE
	COMPANY/UNDERTAKING	
Product Name Cat No. Synonyms Recommended Use	n-Heptane 411250000; 411255000 Normal heptane.; n-Heptane Laboratory chemicals	
Company Acros Organics BV Janssen Pharmace 2440 Geel, Belgiun	uticalaan 3a	
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 preparation is classified as dangerous in accordance with Directive 1999/45/EC.



R -phrase(s) R11 - Highly flammable

R38 - Irritating to skin

R65 - Harmful: may cause lung damage if swallowed

R67 - Vapors may cause drowsiness and dizziness

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	Weight %	EC No.	Classification
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Heptane (n-)	>95	EEC No. 205-563-8	F;R11
142-82-5			Xn;R65
112 02 0			Xi;R38
			R67
			N;R50/53

4. FIRST AID MEASURES

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

	5. FIRE-FIGHTING MEASURES
Notes to Physician	Treat symptomatically.
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.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Protective Equipment and Precautions for Firefighters

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

Flash Point	-4°C / 24.8°F
Method	No information available.
Autoignition Temperature	215°C / 419°F
Explosion Limits Lower Upper	1 vol% 7 vol%



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.
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 Remove all sources of ignition Use spark-proof tools and explosion-proof equipment
	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. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat and sources of ignition.
Specific use(s)	No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Component	European Union	The United Kingdom	France	Spain	Germany
Heptane (n-)			VME: 1668 mg/m ³	VLA-ED: 2085 mg/m ³	
			VME: 400 ppm	VLA-ED: 500 ppm	
			VLCT: 2085 mg/m ³		
			VLCT: 500 ppm		

Component	Italy	Portugal	The Netherlands	Finland	Austria
Heptane (n-)	TWA: 500 ppm TWA: 2085 mg/m ³	STEL: 500 ppm TWA: 400 ppm	STEL: 1600 mg/m ³ TWA: 1200 mg/m ³	TWA: 300 ppm TWA: 1200 mg/m ³ STEL: 2100 mg/m ³ STEL: 500 ppm	STEL: 2000 ppm STEL: 8000 mg/m ³ MAK: 500 ppm MAK: 2000 mg/m ³

Component	Switzerland	Poland	Norway	Ireland	Denmark	Australia
Heptane (n-)	STEL: 1600 mg/m ³	NDSCh: 2000 mg/m ³	TWA: 200 ppm	TWA: 400 ppm	TWA: 820 mg/m ³	STEL: 2050 mg/m ³
	STEL: 400 ppm	NDS: 1200 mg/m ³	TWA: 800 mg/m ³	TWA: 1600 mg/m ³	TWA: 200 ppm	STEL: 500 ppm
	MAK: 1600 mg/m ³	_	-	_		TWA: 400 ppm
	MAK: 400 ppm					TWA: 1640 mg/m ³



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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 Use explosion-proof electrical/ventilating/lighting/equipment
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. Tightly fitting safety goggles
Skin and body protection Hand Protection	Wear appropriate protective gloves and clothing to prevent skin exposure. Protective gloves
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Appearance
Odor
рН
Vapor Pressure
Vapor Density
Viscosity
Boiling Point/Range
Melting Point/Range
Flash Point
Explosion Limits
Lower
Upper
Evaporation Rate

Evaporation Rate Water Solubility Specific Gravity Molecular Formula Molecular Weight Liquid Colorless Petroleum distillates No information available. 48 mbar @ 20 °C 3.5 (Air = 1.0) 0.4 mPa s at 20 °C 98°C / 208.4°F -91°C / -131.8°F -4°C / 24.8°F

1 vol% 7 vol% 2.8 (Butyl Acetate = 1.0) practically insoluble 0.683 C7 H16 100.2

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)



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Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Heptane (n-)	5000 mg/kg (Mouse)	3000 mg/kg (Rabbit)	103 g/m³ (Rat)4 h

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	Central nervous system (CNS), Skin, Respiratory system.
Other Adverse Effects	See actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Heptane (n-)				EC50: >10 mg/L/24h		
Persistence and Degradabilit	y No informatio	n available				
Bioaccumulative Potential	No informatio	No information available.				
Mobility	No informatio	No information available.				





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Compon		log Pow 4.66			
	13. DISPUSAL	L 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. TRANSPO	ORT INFORMATION			
IMDG/IMO UN-No Hazard Class Packing Group Proper Shipping Name ADR UN-No Hazard Class Backing Group	UN1206 3 II Heptanes UN1206 3 II				
Packing Group Proper Shipping Name	II Heptanes				
IATA UN-No Hazard Class Packing Group Proper Shipping Name	UN1206 3 II Heptanes				

15. REGULATORY INFORMATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

Labelling









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R -phrase(s) R11 - Highly flammable R38 - Irritating to skin R65 - Harmful: may cause lung damage if swallowed R67 - Vapors may cause drowsiness and dizziness R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s)

- S 9 Keep container in a well-ventilated place
- S16 Keep away from sources of ignition. No smoking
- S29 Do not empty into drains
- S33 Take precautionary measures against static discharges
- S60 This material and its container must be disposed of as hazardous waste
- S61 Avoid release to the environment. Refer to special instructions/safety data sheets
- S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Heptane (n-)	205-563-8	-		Т	Х	-	Х	Х	Х	Х	KE-18271
											Х

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

R11 - Highly flammable

R38 - Irritating to skin

R65 - Harmful: may cause lung damage if swallowed

R67 - Vapors may cause drowsiness and dizziness

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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Revision Date	14-Sep-2009



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Revision Date 14-Sep-2009

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