

Issued by, department, telephone K.Nilsson M 31511	Date of revision 2010-09-21	Edition number 14	This edition replace 2008-07-07 ed. 13
Product denomination			

Product denomination Norma URP

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## PRODUCT IDENTIFICATION AND NAME OF THE COMPANY

Product name	Propellant N URP

Application Propellant for use in ammunition

Manufacturer Norma Precision AB SE 67040 Åmotfors Phone. nr. +46(571)31500 Fax nr. +46(571)31540 Emergency telephone number +46(571)31500

## 2 HAZARD IDENTIFICATION

Health hazard

Risk of explosion by shock, fire or other sources of ignition Very tocix by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.



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#### 3 COMPOSITION/IDENTITY INFORMATION

Hazardous Components	CAS-no	EINECS-no	%	Danger code	Risk phrases
Nitrocellulose (>12.6 %)	9004-70-0	-	>80	E	1, 3
Nitroglycerine	55-63-0	200-240-8	<13	E, T+, N	3, 26/27/28, 33, 51/53
Diphenylamine	122-39-4	212-769-1	<2	Τ, Ν	23/24/25, 33, 50/53
Di iso amylfhtalate	605-50-5	210-088-4	<4	Τ, Ν	50, 60, 61
Centralite I	85-98-3	201-645-2	<2	Xn	22, 52/53

#### 4 FIRST AID MEASURES

Inhalation	Fresh air, rest and warmth. Rinse nose, mouth and throat with water. Call for a doctor if troubles remain.
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Skin contact Take immediately off contaminated clothes/shoes. Wash with soap and water. Call for a doctor if troubles remain.

Eye contact Rinse carefully with water. Call for a doctor if troubles remain.

Ingestion Give a few glasses of milk or water if the person is fully conscious and try to cause vomiting. Rinse the mouth with water. Call for a doctor if troubles remain.

### 5 FIRE FIGHTING MEASURES

Suitable extinguishing media Water sprinkler.

Extinguishing media not to be used Powdered extinguishing medium.

Dangerous breaking down-product Nitrous fume. / gases

Special protective equipment for Evacuate the area, fire can be transformed into detonation, don't attempt to extinguish. fire-fighters

## 6 ACCIDENTAL RELEASED MEASURES

Ordinary measure Sweep up and put into marked container.



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## Protective equipment for clearance Protective equipment in case of directs contact, such as protective gloves and clothes. personal Environmental precautions Prevent the product from reaching the sewage system. Collection- and clearance method Sweep up and put into marked container. Unsuitable clearance method and absorb solvent Method for taking care of waste Burned at approved place. Note! That explosive can detonate. 7 HANDLING AND STORAGE Ventilation with handling Well ventilated area if there is some contact with the product. Equipment with handling The equipment shall suit to the explosive sensitivity. Recommended temperature with Normal room temperature. handling Equipment witch not will be used Equipment which cause static electricity. with handling Requirement for storage and To be stored in dark, tight closed containers in places approved for explosives. packing Unsuitable handling and storage There is risk fore impact, friction, fire, heating or electrostatic discharge. method Handling and storage only according to valid code of laws and instruction. Other rules and instructions Permission fore storage shall bee allowed the police. Keep in a way that ensures complete safety according handling and import of explosive products. **EXPOSURE CONTROLS/PERSONAL PROTECTION** 8 Threshold limits Swedish limit is missing. Method of measurement Measuring of dust can be done according (Swedish) Arbetsmiljöverkets Method series, no M1010. Sampling of total dust and resperabelt dust **Biological limits** Swedish limit is missing. Workplace and working methods shall be worked out so that directly contact with the product contact will Specific measure for reducing exposure be prevented. Respiratory protection By danger of inhalation of dust, use breathing protection with dustfilter P2. Gloves Rubber gloves when it will become risk fore directly contact. Eye protection Protective glasses if there is some risk that the product can irritate the eyes. Protective clothing Flame protection treated clothes and safety boots when working with the product.

# PHYSICAL AND CHEMICAL PROPERTIES

Physical form	Single perforated grains
Colour	Grey-black

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Odour	Odourless
Explosion properties	Explosive
Decomposition point	When heated during a longer period of time decomposition can happen.
Solubility in water	Insoluble
Solubility in other solvents	Soluble in Ketones and esters.
Partition coefficient n- oktanol/water	Log Pow = 1,88 (Nitroglycerine)
Density (kg/m <sup>3</sup> )	900-940
Melting point	-
Autoignition temperature	Min.175 °C

#### 10 STABILITY AND REACTIVITY

Conditions which could affect the product stability	Chock, friction, fire or other sources of ignition.
Material to avoid	Alkaline substances and strong acids.
Hazardous conversion- and or decomposition products	Nitrous fume.

# 11 TOXICOLOGICAL INFORMATION

Inhalation	Dust may irritate the respiratory organs.
Ingestion	Very tocix if swallowed.
Skin	Penetrate easily through the skin and can give headache.
Eye	Dust can irritate.
System effects with handling	Have not been detectable.
Allergy cause properties	No
Cancer/mutation/unborn child damage/reproduction	No
Delayed health effects	No
LD <sub>50</sub> oral rat	-

# 12 ECOLOGICAL INFORMATION

Toxicity to aquatic organisms	Microtox EC50 Daphnia 48 h: 26 mg/l, Sort: D. magna (Nitroglycerine)
Toxicity to soil organisms	Function is missing.



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Dangerous waste

Toxicity to micro-organisms	Function is missing.
Mobility and allocation in the environmental	Function is missing.
The input products degradable into the environmental	Function is missing.
The input products degradable into the sewage	BOD <sub>7</sub> 0,020 g/g (Nitroglycerine) COD 0,37 g/g (Nitroglycerine) BOD <sub>7</sub> /COD 0,54 (Nitroglycerine)
Bioaccumulative	BCF: 15 (Nitroglycerine) Log Pow = 1,62 (Nitroglycerin)
13 DISPOSAL CON	SIDERATION
13   DISPOSAL CON     Handling of rest product	<b>SIDERATION</b> Handling as explosive waste, Not! Explosion risk.
Handling of rest product Handling of contaminated	Handling as explosive waste, Not! Explosion risk.
Handling of rest product Handling of contaminated packaging	Handling as explosive waste, Not! Explosion risk. Container handling as dangerous goods.

Yes

# 14 TRANSPORT INFORMATION

FN/UN number	0161
Class ADR/RID, IMDG, IATA	1.3C
Proper shipping name	Powder, smokeless
Packing group	Ш
Marine Pollutant	No
EMS number	F-B, S-Y
EX-number (DOT/USA)	EX-9308184
Other	CE BAM Nr.0589.EXP.3490/99

# 15 REGULATORY INFORMATION

Dangerous symbols with dangerous E, Explosive, code T+, Very tocix N, Dangerous for the environment



**Risk phrases** 

R2, Risk of explosion by chock, friction, fire or other sources of ignition.
R26/27/28, Very tocix by inhalation, in contact with skin and if swallowed.
R33, Danger of cumulative effects.
R51/53, Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61, May cause harm to the unborn child.



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Safety phrases Product name	<ul> <li>S33, Take precautionary measures against static discharges.</li> <li>S35, This material and its container must be disposed of in a safe way.</li> <li>S36/37, Wear suitable protective clothing and gloves.</li> <li>S45, In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</li> <li>S61, Avoid release to the environment. Refer to special instructions/safety data sheets.</li> <li>Propellant</li> </ul>	
Other regulations	Explosive legislation.	
Limitation/restriction	Permit required for handling and storage.	
Permission for transfer and handling	The legislation about flammable substances and explosive products. (Sweden) Flammables and Explosives Department instruction about Permit regarding transfer of explosives.	
Input product in EINECS	Yes Exkl. Nitrocellulose	
Other legislation	Safety adviser for dangerous goods. Legislation about transport of dangerous goods. Legislation and ordinance about manufacturing and sell of war material.	
16 OTHER INFORMATION		
R-phrase from point 3	<ul> <li>R1, Explosive when dry.</li> <li>R3, Extreme risk of explosion by chock, friction, fire or other sources of ignition.</li> <li>R22, Harmful if swallowed.</li> <li>R23/24/25, Toxic by inhalation, in contact with skin and if swallowed.</li> <li>R26/27/28, Very tocix by inhalation, in contact with skin and if swallowed.</li> <li>R33, Danger of cumulative effects.</li> <li>R50, Very toxic to aquatic organisms.</li> <li>R50/53, Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R51/53, Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R52/53, Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R60, May impair fertility.</li> <li>R61, May cause harm to the unborn child.</li> </ul>	
Training for handling	Yes.	

CAMBREX KARLSKOGA AB environment data

describe the product from safety point of view.

Kemiska ämnen: Prevent

Arbetarskyddsstyrelsens och Kemikalieinspektionens författningssamling.

RIB Integrerat beslutsstöd för skydd och olyckor. This safety data sheet is a revised edition according the new chemical rules, as EG no 1272/2008 and

Reach EG no 1907/2006 . The informant in this SDS is based at our existing knowledge and is based too

References

Other