

1. PRODUCT IDENTIFICATION**MANUFACTURER, IMPORTER OR DISTRIBUTOR IDENTIFICATION****1.1. Data concerning the product:** INSECT Remover.**1.2. Intended use:** Substance for removing insects.

APP no.: 220111, 220112.

Distributor: AUTO – PLAST PRODUKT Sp. z o. o.

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Current safety data and technical information available at the website.

**Date of MSDS preparation:** 28. 05. 2007**MSDS revision date:** 21.10.2008**2. HAZARDS IDENTIFICATION****Pursuant to the regulations in force (see p. 15) the product is classified as hazardous.****2.1. Physical and chemical hazards:**

- the product does not cause fire hazard
- liberates toxic gases in the conditions of fire

2.2. Hazard to health

- the product is irritant
- The product irritates eyes, respiratory tract and skin.
- The product may cause the occurrence of allergic reaction

2.3. Hazard to the environment.

- The product is not classified as hazardous to the environment, however entering large amounts of the product to water may have a negative influence on aquatic organisms.
- All surfactants(detergents) contained in the product meet the requirements concerning biodegradability pursuant to the Regulation (EC) no. 648/2004 of the European Parliament and the Council of Europe of 31st March 2004 on detergents.
- avoid release to the environment.
- refer to special instructions/safety data sheets

3. COMPOSITION AND INFORMATION ON COMPONENTS

Product classification and marking was presented pursuant to the Act on chemical substances and preparations dated 11th January 2001, on the basis of the data provided by the manufacturer and on the basis of general knowledge on the substances.

3.1. Hazardous components:

No.	EC no.(EINECS)	Product name:		
	CAS no.	R phrase	Classification	Contents [%]
	Index no.			
1.	None	Anionic surfactant		
	None	The substance is a polymer. The substance is not included in the list. Classification attributed on the basis of the data provided by the manufacturer.		
	None	R36/38	Xi	1 ÷ 5
2.	None	polyethoxylated isotridecanol		
	24938-91-8	The substance is a polymer. The substance is not included in the list. Classification attributed on the basis of the data provided by the manufacturer.		
	None	R22; R41	Xn; Xi	1 ÷ 5
3.	225-768-6	nitrilotriacetic acid		
	5064-31-3	The substance is not included in the list. Classification attributed on the basis of the data provided by the manufacturer.		
	None	R22; R36	Xn; Xi	1 ÷ 5
4.	None	Amphoteric anionic surfactant		
	None	The substance is a polymer. The substance is not included in the list. Classification attributed on the basis of the data provided by the manufacturer.		
	None	R36/38	Xi	1 ÷ 5
5.	205-483-3	ethanoloamine		

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	141-43-5			
	603-030-00-8	R20/21/22; R34	C; Xn	1 ÷ 5
6.	227-813-5	d-limonene		
	5989-27-5			
	601-029-00-7	R10; R38; R43; R50: R53	Xi; N	0,01 ÷ 0,1
7.	226-394-6	cithern		
	5392-40-5			
	605-019-00-3	R38; R43	Xi	0,01 ÷ 0,1
8.	202-086-7	coumarin		
	91-64-5	The substance is not included in the list. Classification attributed on the basis of the data provided by the manufacturer.		
	None	R22; R43	Xn; Xi	0,01 ÷ 0,1

The meaning of symbols and contents of R phrases – see item 16.

4. FIRST AID MEASURES

4.1. General recommendations:

If any non-desirable symptoms occur, call the doctor immediately or take injured to hospital, show the product packing, label or MSDS.

4.2. First aid in case of inhalation exposure:

- take the injured person to a well ventilated room
- place the injured person in half-lying position, loose clothing, make sure that there are no objects or secretion impeding breathing, in the mouth
- medical attention necessary

4.3. First aid in case of eye contamination:

- flush contaminated eyes, with eyelids open, with a lot of running water, for 10-15 minutes, avoid strong water jet which may cause the risk of damaging cornea.
- do not use any liquids for rinsing eyes or any ointments before medical consultation.
- in case if the injured person uses contact lenses, remove them
- medical attention necessary

Notice: Persons exposed to eye contamination should be advised about the necessity and method of immediate washing the eyes.

4.4. First aid in case of skin contamination:

- take off dirty clothing
- wash skin exposed to contact with the product, or only suspected to be exposed, with plenty of water with soap
- get medical attention.

4.5. First aid in case of swallowing:

- rinse mouth with a lot of running water
- Induce vomiting of the injured person
- medical attention necessary

5. FIRE FIGHTING MEASURES

5.1. Fire hazards:

- the product does not cause fire hazard
- liberates toxic gases in fire

5.2. Recommended extinguishing media:

- adequate for burning materials in the surroundings

6. ACCIDENTAL RELEASE MEASURES

6.1. General advice:

- in case of releasing large amounts, notify competent services about the accident
- remove all people who do not take part in repairs from danger zone

6.2. Personal protection:

- avoid contact with releasing product
- use protective gloves and protective clothing
- Apply tight protective goggles with side cover or an adequate protective mask

6.3. Environmental precautions:

- Eliminate spillage (shut off liquid flow, seal, damaged container put in emergency container)
- avoid the contamination of groundwater, protect sink basins
- do not let the product enter the sewage system or draining system
- if the product reached the water or draining system, contaminated the earth or flora, notify competent services

6.5. Cleaning procedures:

- small amounts of released product wipe with paper or a cloth, put in a closed, properly marked container

- bigger amounts of released product cover up with inflammable absorbing material (sand, diatomaceous earth, universal binding material), put in a closed, properly marked container
- in case of big spillage, embark the place where the liquid accumulates
- wash the place of spillage after removing the material

7. HANDLING AND STORAGE

7.1. Handling the product:

- ensure efficient air exchange when working with the substance (general ventilation of the room and local exhaust ventilation)
- Do not inhale the product vapours, avoid direct contact of product with skin and eyes; use adequate personal protection measures
- handle the product pursuant to the general principles of work health and safety concerning chemical substances; strictly follow the proceeding procedures; when handling the product, apply general work health and safety regulations contained in the Regulation of the Minister of Labour and Social Policy dated 11th June 2002 (Dz. U. no. 91 dated 2001, item 811); observe the advice included in the instructions provided by the manufacturer
- do not eat, drink and smoke when handling the product, except for the places designed for this; wash hands before the breaks and after work, if necessary use hand cream
- do not allow for the contamination of skin, eyes and clothing
- avoid long-term and repeated exposure
- work in ventilated rooms

7.2. Storage:

- store the product in cool, dry and well ventilated rooms
- store the product in original and tightly closed containers
- optimum storage temperature from 15°C to 25°C
- do not store near food

7.3. Requirements concerning the room:

- cool, dry and well ventilated.

7.4. Package:

- for safety reasons, it is recommended to store the product in original packages
- Store in tightly closed, adequately marked containers
- protect packages from mechanical damage

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1. Hazard to health

Employees' medical tests and tests and measurements of harmful substances to be carried out pursuant to the regulations in force.

8.2. Precautions:

- Store and use well ventilated room.

8.3. Personal protection:

- Thoroughly wash the whole body after work.
- Wash contaminated clothing and footwear before another use

8.4. Hazard to health

Pursuant to the regulation of the Minister of Labour and Social Policy dated 29th November 2002 (Dz. U. no. 217 item 1833) with the amendment (Dz. U. No. 212 item 1769 dated 2005):

2-Aminoethanol: NDS: 3 mg/m³
NDSCh: 10 mg/m³

8.5. Recommended monitoring procedures:

- PN-89/Z-01001/06. Air purity protection. Names, definitions and units. Terminology concerning air quality tests at work places.
- PN-89/Z-04008/07. Air purity protection. Collecting samples. Principles of collecting air samples in work environment and the interpretation of results.
- 2-aminoethanol – determination method Principles and Methods of Work Environment Assessment 1998, z. 19

8.6. Admissible concentrations in biological material:

Not defined

8.7. Hygienic advice:

Avoid direct contact of the product with skin and eyes and inhaling the product vapours; use the product in the rooms with efficiently working ventilation and, if necessary, use respiratory tract protection measures; immediately take off contaminated clothing and wash contaminated skin with water with soap; do not eat, drink and smoke when handling the product, except for the places designed for this, wash hands before breaks at work and after finishing work with the product, use hand cream when necessary.

When substance concentration is determined and known, personal protection media should be selected with the consideration of the concentration of the substance occurring at a given work station, time of exposure and the activities

performed by the employee pursuant to the catalogue "Individual protection media" issued by Central Institute for Labour Protection.

In case of emergency, even if the concentration of the substance at work station is not know, use individual protection media of the highest recommended protection class.

8.7. Personal protection ensuring adequate protection:

- hands: Protective gloves made of PVC, neoprene, PVA
- skin: protective clothing
- respiratory tract: ensure good ventilation.
- eyes: protective goggles or mask protecting the face

Notice! Recommended protective equipment must be certified for safety mark pursuant to the Regulation of the Council of Ministers dated 9th November 1999 on the list of goods manufactured in Poland as well as goods imported to Poland for the first time, which may cause danger or serving the protection or saving life, health or the environment, being subject to the certification for safety mark and marking with this mark and the goods subject to the obligation of issuing the declaration of conformity by the manufacturer.

The employer is obliged to make sure that the used individual protection media as well as protective clothing and footwear had the protective usable properties and assure their adequate washing, maintenance, repair and decontamination.

9. PHYSICAL AND CHEMICAL PROPERTIES

form, appearance:	liquid
colour:	light yellow
odour:	characteristic
pH	ok. 11,5
boiling point:	100°C
melting point:	not determined
burning temperature:	not determined
flash point	>100°C
autoignition temperature:	>250°C
combustibility:	the product is not hazardous
explosive properties:	No danger of explosion
hazard danger boundaries:	
- lower:	-
- upper:	-
oxidizing properties:	none
vapour pressure:	23 mbar
density:	1,05 g/cm ³ (in the temperature of 20°C)
vapour density:	not determined
solubility:	
- in water:	does mix
- in organic solvents:	does not mix
Distribution ratio n- octanol/water	not determined

10. STABILITY AND REACTIVITY

10.1. Stability:

- stable in normal conditions of application and storage

10.2. Conditions to avoid:

- high temperature

10.3. Materials to avoid:

- acids

10.4. Hazardous products of decomposition/combustion:

- toxic gases and smokes

11. TOXICOLOGICAL INFORMATION

11.1. Hazards to health

- the product is irritant
- The product irritates eyes, respiratory tract and skin.
- The product may cause the occurrence of allergic reaction

11.2. Toxic doses and concentrations:

No data

11.3. Effects of acute exposure at people (for the product):**Inhalation:**

In high concentrations the product vapours may be irritant to respiratory tract and eye mucosa (they cause lacrimation and eye pain, conjunctival congestion, cough, throat and nose burning).

Skin contact:

Repeated exposure may cause skin dryness or cracking. The product may cause sensitisation by skin contact. Persons with allergic predispositions should be particularly careful.

Eye contact:

Vapours may cause eye mucosa irritation manifesting itself with reddening, lacrimation and pain.

It causes eye irritation in case of direct contact.

Swallowing:

Irritation of mucosa of alimentary system, stomachaches, nausea, vomiting, diarrhoea (possibility of burning crotch area) and symptoms connected with the action of the substance on the system.

12. ECOLOGICAL INFORMATION

12.1. Hazards for the environment.

- The product is not classified as hazardous to the environment, however entering large amounts of the product to water may have a negative influence on aquatic organisms.
- All surfactants(detergents) contained in the product meet the requirements concerning biodegradability pursuant to the Regulation (EC) no. 648/2004 of the European Parliament and the Council of Europe of 31st March 2004 on detergents.
- Avoid release to the environment.
- Refer to special instructions/safety data sheets

12.2. Ecotoxic action:

- No data

12.3. Biodegradability (for the product):

- Chemical Demand for Oxygen 425 mg O₂/g
- Diluted product causes hazard to chemical process taking place in sewage treatment plants to a small extent
- contents of chemically bound or complexed ions of heavy metals: does not contain

The product is subject to biological degradation. Negative ecological effect are not predicted is the product is handled properly.

12.4. Bioaccumulation:

The product does not demonstrate the ability to accumulate. Ecological problems should not be expected in case of using the product with due care.

No data available on the mobility of the described substance in various ecosystems, its ability for bioconcentration, biodegradation or ecotoxicity. Do not let any material enter surface water, ground water and soil.

Proceed pursuant to the regulations. Do not let the product enter natural environment. Properly used product does not cause danger to the environment. Do not let any material enter surface water, ground water and soil. Do not dispose in the sewage system. It is forbidden to dispose of the product to sewers or water courses.

13. DISPOSAL CONSIDERATIONS

13.1. Waste material proceedings:

Do not dispose in the sewage system. Do not let any material enter surface water, ground water and soil.

Small quantities (at the consumer's) treat as household waste.

Do not dispose large quantities of waste material in the sewage system. Utilize in authorized incineration plants or waste utilization plants, pursuant to the regulations in force (see item 15)

13.2. Package contents:

- waste kind: Other unmentioned waste
- Waste code: 07 06 99

13.3. Package:

- waste kind Packages made of plastics
- Waste code: 15 01 02

14. TRANSPORT INFORMATION

14.1. Road transport:

The product does not cause danger in the light of road transport regulations.

15. REGULATORY REGULATION

Classification and marking of the substance was given pursuant to the Act on chemical substances and preparations dated 11th January 2001, on the basis of the data delivered by the manufacturer and on the basis of general knowledge on the substances.

Package marking:**Product contains:**

- d-limonene
- cithern
- coumarin

The product may cause the occurrence of allergic reaction

Warning marks:



Xi Irritating product

Hazard phrases:

R36/37/38 Irritates eyes, respiratory tract and skin.

Phrases indicating conditions of safe usage:

S2 Keep out of the reach of children.
 S23 Do not breathe dispersed liquid
 S24/25 Avoid contact with skin and eyes.
 S26 Immediately flush contaminated eyes with plenty of water and seek medical advice.
 S37/39 Wear adequate safety gloves and glasses or face protection.
 S45 In case of emergency or if you feel bad, seek medical advice immediately and show the label if possible

Special remarks:

If the product is offered to detail sale for consumers, also:

- the package should have touch-perceptible warning on hazard (Dz. U. No. 128 item 1348 of 2004).

Regulations in force:

- 1 Regulation (EC) no. 1907/2006 of the European Parliament and European Council dated 18th December 2006 on the registration, assessment, granting permits and applied restrictions in the scope of chemicals (REACH) the establishment of the European Chemicals Agency amending directive 1999/45/EC and repealing the regulation of the Council (EEC) no. 793/93 and the regulation of the Commission (EC) no. 1488/94, as well as the Council directive 76/769/EEC and the Commission's directive 91/155/ EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (correction Dz. Urz. Of the European Union, L 396/1)
- 2 Act dated 11th January 2001 on chemical substances and preparations (Dz. U. No 11 item 84 dated 2001) with subsequent amendments)
- 3 Act dated 27th April 2001 on waste (Dz. U. No 62 item 628 dated 2001) together with the Regulation of the Minister of the Environment (Dz. U. No 152 item 1735-1737 dated 2001)
- 4 Act dated 11th May 2001 on package and package waste (Dz. U. No. 63, item 638 dated 2001) with subsequent amendments
- 5 Proclamation of the Marshal of the Parliament of the Republic of Poland dated 4th July 2006 on announcing single text of the act - Environment Protection Law (Dz. U. No 129 item 902 dated 2006)
- 6 Act dated 28th October 2002 on land transport of hazardous materials (Dz. U. No 199 item 1671 dated 2001) with subsequent amendments
- 7 The Regulation of the Minister of Health dated 30th April 2004 on dangerous substances and chemical preparations whose packages shall have closures protecting against opening by children and warning label recognized with fingers. (Dz. U. No. 128, item 1348 dated 2004).
- 8 Regulation of Minister of Health of 2nd September 2003 on marking of dangerous substance and preparation packages (Dz. U. No 173 item 1679 dated 2003) with subsequent amendments of 9th November 2004 (Dz. U. No 260 item 2595 dated 2004)
- 9 Regulation of Minister of Health of 2nd September 2003 on criteria and classification method for chemical substances and preparations (Dz. U. No 171 item 1666 dated 2003) with the amendment of 4th July 2007, (Dz. U. No 174 item 1222)
- 10 Regulation of the Minister of Health dated 13th November 2007 on Material Safety Data Sheet (Dz. U. No 215 item 1588 dated 2007)
- 11 Regulation of Minister of Health dated 28th September 2005 on the list of dangerous substances with their classification and marking (Dz.U. No. 201, item 1674 dated 2005)
- 12 Regulation of the Minister of Labour and Social Policy dated 29th November 2002 on the highest allowed concentrations and intensity of agents harmful to health in the work environment (Dz. U. No. 217, item 1833 dated 2002). with the amendment (Dz. U. and Dz. U. No 161 item 1142 of 2007)
- 13 Government announcement dated 26th July 2005 on the annexes A and B of the European Agreement concerning international transport of hazardous materials, coming into force (ADR), prepared in Geneva dated 30th September 1957 (Dz. U. No. 178, item 1481 dated 2005)
- 14 Regulation of the Minister of Environment dated 27th September 2001 on waste catalogue (Dz. U. 2001 No 112 item 1206)
- 15 Regulation of the Minister of Labour and Social Policy dated 11th June 2002 amending the regulation on general work health and safety regulations (Dz. U. No. 91, item 811 dated 2002).
- 16 Regulation of the Minister of Economy dated 9th June 2006 amending the regulation on the minimum requirements concerning work health and safety of the employees employed at work stations where explosion may occur (Dz. U. No. 121 item 836 dated 2006).
- 17 Regulation of the Council of Ministers dated 30th July 2002 amending the regulation on the list of works forbidden to women (Dz. U. No. 127, item 1092 dated 2002). Regulation of the Minister of Health dated 20th April 2005 on the tests and measurements of agents harmful to health in the work environment (Dz. U. dated 73, no. 73, item 645 dated 2005)
- 19 Regulation of the Minister of Health and Social Welfare dated 30th May 1996 on conducting medical tests of employees, the scope of prevention in health care of the employees and doctor's statements issued for the purposes stated in the Labour Code (Dz. U. No. 69 item 332 dates 1996) with subsequent amendments (Dz. U. No 37 item 451 and Dz. U. No. 128, item 1405 dated 2001)
- 20 Regulation of the Council of Ministers dated 24th August 2004 on the list of works forbidden to the juvenile and the conditions of employing them at some works (Dz. U. No. 200 item 2047 dated 2004) with subsequent amendments (Dz. U. No 136 item 1145 dated 2005)
- 21 Regulation of Minister of Economy and Labour dated 5th July 2004 on the limitations, bans or production conditions, trading or the use of hazardous substances and preparations and the products containing them (Dz. U. No. 168 item 1762 dated 2004) with subsequent amendments (Dz. U. No 39 item 372 dated 2005 and Dz. U. No. 127, item 887 dated 2006)
- 22 Regulation of the Minister of Health dated 1st December 2004 on substances, preparations, factors or technological processes with carcinogenic or mutagenic in the work environment (Dz. U. No. 280 item 2771 dated 2004). with subsequent amendments (Dz. U. No 160 item 1356 dated 2005)
- 23 Act dated 29th July 2005 on counteracting drug abuse (Dz. U. No. 179, item 1485 dated 2005) with the amendment (Dz. U. No. 120, item 826 dated 2006 and the Regulation (EC) No. 273/2004 of the European Parliament and the Council dated 11th February 2004, on the precursors of drugs (Dz. Urz. EC L 047 dated 18th February 2005) and the Regulation (EC) and the Council No. 111/2005 dated 22nd December 2004

defining the principles of supervising the trade with drugs precursors between the Community and the third countries (Dz. Urz. EC L 22 dated 26th January 2005, page 1; Dz. Urz. EC Polish special issue dated 2005, volume 48, page 1).

16. OTHER INFORMATION

The meaning of symbols and the contents of R phrases included in item 3:

Xn	Harmful product
C	Caustic product
Xi	Irritating product
N	Product hazardous for the environment
R10	Flammable product
R20/21/22	Harmful by inhalation, in contact with skin and when swallowed.
R22	Harmful if swallowed
R34	Causes burns
R36	Irritating to eyes
R36/38	Irritates eyes and skin.
R38	Irritating action on skin
R41	Risk of serious damage to eyes.
R43	May cause sensation by skin contact
R50	The product is very toxic to aquatic organisms
R53	The product may cause long-term adverse effects in the aquatic environment.

Employees' medical tests and tests and measurements of the harmful factors to be made pursuant to the valid regulations.

This material safety data sheet was prepared pursuant to the data coming from the MSDS provided by the manufacturer.

The above information was prepared on the basis of current knowledge and experiences. It does not guarantee of the property of the product or quality specification and cannot be the basis for the complaint.

The product should be transported, stored and applied pursuant to the regulations in force and good practice and hygiene of work.

The manufacturer does not bear responsibility for any losses arising directly or indirectly from the application of the above interpretation of the regulations or instructions..

The presented information cannot be applied for the mixtures of the product with other substances. The use of information given and the application of the product are not controlled by the manufacturer so it is the user's obligation to create adequate conditions for safe handling the product.

MSDS was prepared by **CHEM-NET S.C. 91-716 Łódź, Nowopolska 9A** www.chem-net.info, at the order of **AUTO – PLAST PRODUKT Sp. z o. o.** MSDS was prepared pursuant to domestic regulations currently in force. The preparation of this MSDS was based on current knowledge and experiences.
