

1. PRODUCT IDENTIFICATION**MANUFACTURER, IMPORTER OR DISTRIBUTOR IDENTIFICATION****1.1. Data concerning the product:** NTZ Cleaner- Wax and grease remover**1.2. Intended use:** It separates and decomposes any oil, grease and dirt from any surface.
APP no.:220350.**Distributor:** AUTO – PLAST PRODUKT Sp. z o. o.
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www: www.app.com.pl**Emergency telephone:** Tel. +48 (061) 437 00 00
Current safety data and technical information available at the website.**Date of MSDS preparation:** 23.06.2006**MSDS revision date:** 07.11.2008**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 is not hazardous if used properly
- liberates toxic gases in the conditions of fire

2.2. Hazard to health

- the product is caustic
- The product causes burns
- the product is irritant
- The product irritates respiratory tract.
- the product causes the risk of serious damage to eyes.

2.3. Hazard to the environment.

- the substance is classified as very hazardous to the environment.
- 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.

3.1. Hazardous components:

No.	EC no.(EINECS)	Product name:		
	CAS no.	R phrase	Classification	Contents [%]
1.	229-912-9	sodium metasilicate		
	6834-92-0			
	014-010-00-8	R34; R37	C; Xi	10 ÷ 25
2.	None	polyethoxylated alcohol (nonionic surfactant)		
	68439-45-2	The substance is a polymer. The substance is not included in the list. Classification attributed on the basis of the data gathered by electronic form.		
	None	R22; R41	Xn; Xi	5 ÷ 15

The meaning of symbols and contents of R phrases – see page 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:

- immediately take the injured person to a well ventilated room
- protect from the loss of heat
- 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:

- immediately take off dirty clothing
- do not use any solvents or diluents for washing skin
- 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
- do not give an unconscious person anything to drink
- do not induce vomiting
- medical attention necessary

5. FIRE FIGHTING MEASURES

5.1. Fire hazards:

- the product does not cause hazard in case of proper use
- liberates toxic gases in fire

5.2. Recommended extinguishing media:

- adequate for burning materials in the surroundings

5.3. Special hazards:

- Containers exposed to fire or high temperature cool with water, from a safe distance, and if this is not possible, remove them from hazard area

5.4. General advice:

- Alarm about fire
- remove all people who do not take part in rescue operation from danger zone;
- if the need arises, order evacuation
- avoid inhaling the smoke
- remove all sources of ignition
- wear protective clothing and use protective equipment
- protect respiratory tract
- cool containers exposed to contact with fire with water
- do not let extinguishing media enter the sewage system

5.6. Hazardous products of combustion:

- carbon monoxides
- toxic fumes and smokes

5.7. Personal protection:

- self-contained breathing apparatus and protective clothing

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:

- when removing large amounts of the product, wear self-contained breathing apparatus with a mask
- when removing, do not breathe in product vapours
- avoid contact with releasing product
- use protective gloves and protective clothing
- apply tight protective goggles with side cover or an adequate protective mask

6.5. 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

6.6. 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 absorbing material (sand, diatomaceous earth, universal binding material), put in a closed, properly marked container
- eliminate all possible sources of ignition, do not smoke
- air the rooms which the product reached
- 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
- 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

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
- previously opened containers store vertically to make the leakage of the product impossible
- do not store near food
- store away from sources of fire, sparks and sources of heat
- do not let water enter the container

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) (Dz. U. No. 212 item 1769 of 2005; Dz. U. No. 161 item 1141, 1142 of 2007):

- the product contains no components for which exposure control is required.

8.5. 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.

8.6. Personal protection ensuring adequate protection:

hands: protective gloves made of materials resistant to the action of alkalis
 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
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colour:	transparent
odour:	characteristic
pH	about 12.9
boiling point:	about 100°C
melting point:	0°C
burning temperature:	not determined
flash point	inflammable liquid
autoignition temperature:	inflammable liquid
combustibility:	inflammable liquid
explosive properties:	The product is not endangered with explosion
hazard danger boundaries:	
- lower:	-
- upper:	-
oxidizing properties:	-
vapour pressure:	not determined
density:	1,04 ÷ 1,06 g/cm ³ (in the temperature of 20°C)
vapour density:	not determined
solubility:	
- in water:	soluble
- in organic solvents:	not determined
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:

- Protect from frost

10.3. Materials to avoid:

- none

10.4. Hazardous products of decomposition/combustion:-

- carbon monoxides
- toxic gases and smokes

11. TOXICOLOGICAL INFORMATION

11.1. Hazards to health

- The product is caustic- The product causes burns
- the product is irritant
- The product irritates respiratory tract.
- the product causes the risk of serious damage to eyes.

11.2. Toxic doses and concentrations:

LD50 (rat, orally): >2,000 mg/kg

LD50 (rat, skin): >2,000 mg/kg

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

Inhalation:

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:

The product is caustic. The product causes burns. 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:

The product is caustic. The product causes burns. Extremely damaging to eyes. It causes eye mucosa irritation manifesting itself with reddening, lacrimation and pain.

Swallowing:

The product causes burns. It is extremely damaging to oral mucosa, gullet and alimentary tract. Swallowing causes irritation of mucosa of alimentary system, stomachaches, nausea, vomiting, and symptoms connected with the action of the substance on the system.

12. ECOLOGICAL INFORMATION

12.1. Hazards for the environment.

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- The product is classified as hazardous to the environment
- Avoid release to the environment.
- Refer to special instructions/safety data sheets
- product contains substances which may be hazardous for the environment in case of big spillage

12.2. Ecotoxic action:

For the product:

Toxicity for:

- shellfish: *Daphnia magna* EC50: 15 ÷ 150 mg/dm³/48 hours
- Algae EC50: 15 ÷ 150 mg/dm³

polyethoxylated alcohol

Toxicity for:

- fish: *Rainbow trout* LC50: 1 ÷ 10 mg/dm³/96 hours
- shellfish: *Daphnia magna* EC50: 1 ÷ 10 mg/dm³/48 hours
- Algae EC50: 10 mg/dm³ /24 hours

sodium metasilicate

- fish: *Rainbow trout* LC50: 100 mg/dm³ /96 hours
- shellfish: *Daphnia magna* EC50: 38 mg/dm³ /48 hours

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. Disposal:

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)

- waste kind: Waste coming from production, preparation, turnover and usage of grease, soaps, detergents, disinfectants and cosmetics. Other unmentioned waste
- Waste code: 07 06 99

Do not let the product enter sewage system and water courses.

Package:

- waste kind Packages made of plastics
- Waste code: 15 01 02
- waste kind Metal packages
- Waste code: 15 01 04

14. TRANSPORT INFORMATION

14.1. Road transport:

ARD material classification: Class 8
Classification code: C5
UN material recognition no.: 1719
Correct shipping name: Liquid, flammable and not determined material
Danger recognition no.: 80
Label: 8
Package group: III

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:

- sodium metasilicate

Product contains:

Warning marks:



C Caustic product

Hazard phrases:

- | | |
|-----|---------------------------------|
| R34 | Causes burns |
| R37 | Irritates respiratory tract. |
| R41 | Risk of serious damage to eyes. |

Phrases indicating conditions of safe usage:

- | | |
|-----------|--|
| S2 | Keep out of the reach of children. |
| S26 | Immediately flush contaminated eyes with plenty of water and seek medical advice. |
| S28 | Immediately flush contaminated skin with plenty of water with soap |
| S36/37/39 | Wear adequate safety clothing, 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. |

MSDS available at the order of the user running business activity.

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 subsequent amendment of 9th October 2004 (Dz. U. No 243 item 2440 dated 2004)
10. Regulation of Minister of Health dated 13th November 2007 on Material Safety Data Sheet (Dz. U. No. 215 item 1588 of 2007r.)
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. No 212 item 1769 dated 2005)
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).
18. 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 2:

- | | |
|---|-----------------|
| C | Caustic product |
|---|-----------------|

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Xn	Harmful product
Xi	Irritating product
R22	Harmful if swallowed
R34	Causes burns
R37	Irritates respiratory tract.
R41	Risk of serious damage to eyes.

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.
