

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006
According to Regulation (EU) No. 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial ProductName: Nasiol-ZR53
Producttype:ThermosetThermoplasticNanoCoatingSolution

1.2 Relevant identified uses of substance or mixture and uses advised against

Relevant identified uses: Paint Protection for automobile body.

1.3 Details of the supplier of the safety data sheet supplier (manufacturer/importer/ Downstream user/distributor)

Company:ARTEKYADAN. AR-GE TEKSTIL MAKINA SAN.
VE TICARET LTD. STI.
ZiyagokalpMh.Heskoop San.Sit.M7Blok No:122
34000 Basaksehir-Istabil/TURKEY

Telephone:00902126701395
Fax:00902123105958
E-mail: info@artekya.com

Dept.responsible for information:

E-mail(competent person) info@artekya.com

1.4 Emergency telephone number

24Hour Environmental/HealthEmergency Telephone: 00905327694427
TransportationEmergencyPhoneNumber00902126701395
National Poison Control Center: UZEM 114(TURKEY)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

AspirationToxicity Category 1

H304: May be fatal if swallowed and enters airways

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; R65 Harmful may cause lung damage if swallowed. ·



S Words:

S2: Keep out of the reach of children.

S46: If swallowed, seek medical advice immediately and show this container or label.

S61: Avoid release to the environment. Refer to special instructions/safety data sheet

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HMIS Ratings (scale 0-4)

HEALTH:1 FLAMMABILITY:1 REACTIVITY:0

PHYSICAL/CHEMICAL EFFECTS

Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. Material can accumulate static charges, which may cause an ignition.

HEALTH EFFECTS

Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat, and lungs.

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks, which may vary from person to person.

2.2 Label Elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]**Hazard Pictograms**

GHS08

Danger

Hazard Statements:

H304: May be fatal if swallowed and enters airways

Precautionary Statements:**Response Precautionary Statements:**

P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P331: Do NOT induce vomiting.

Storage Precautionary Statements:

P405: Store locked up.

Disposal precautionary statements:

P501: Dispose of contents/container to ... [... in accordance with local/regional/national/international regulation (to be specified)].

2.3 Other Hazards

None known.

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SECTION 3: Composition Information

3.1 Mixtures

Hazardous ingredients

Classification according to Regulation (EC) No. 1272/2008 [CLP]

IDENTITY	%	CAS NO.	EC NO	ECINDEXNO	HAZARD CLASSIFICATION
- HYDROCARBONS	>85	64742-47-8	265-149-8	649-422-00-2	Asp. Tox. 1 H304
-COMMERCIALY CONSERVEDFORMULA	<35	-	-	-	

Additional information

For explanation of abbreviations see section 16.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

Seek immediate medical attention. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

NOT TO PHYSICIAN

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water

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5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon
Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

5.3 Advice for firefighters

Evacuate area. Fire fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire-exposed surfaces and to protect personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled material. Use personal protective equipment. See Section 5 for firefighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.

6.2. Environmental precautions

Spill Management

Land Spill: Stop leak if you can do so without risk. Note: Local regulations may prescribe or limitation to be taken.

Water Spill: Prevent product from entering drains. Stop leak if you can do so without risk. Warn other shipping. Note: Local regulations may prescribe or limitation to be taken.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

6.3. Methods and material for containment and cleaning up

Land Spill :

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent.

Water Spill: Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted.

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

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Avoid contact with skin. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Consult local applicable standards for guidance.

Precautions against fire and explosion:

Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. Material can accumulate static charges, which may cause an ignition.

Loading/Unloading Temperature: [Ambient] Transport Temperature: [Ambient]
Transport Pressure: [Ambient]

Static Accumulator: This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100×10^{-12} Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.

7.2. Conditions for safe storage, including any incompatibilities**Storage:**

The container choice, for example storage vessel, may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

Storage Temperature: [Ambient]

Storage Pressure: [Ambient]

Suitable Containers/Packing: Tank Cars; Barges; Drums; Tank Trucks

Suitable Materials and Coatings (Chemical Compatibility): Teflon; Polyethylene; Carbon

Steel; Polypropylene

Unsuitable Materials and Coatings: Polystyrene; Butyl Rubber; Natural Rubber; Ethylene-propylene diene monomer (EPDM)

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use. Read label before use.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**8.1. Control parameters**

Engineering Controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded.

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8.2. Exposure controls

Personal Protection

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical-resistant gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

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SECTION 9: Physical Data

9.1. Information on basic physical and chemical properties

Form:Liquid
Colour:Colourless
Odor: Characteristic
BoilingPoint: 175°@4mm
Specific Gravity:0.88
Vapor Density(air=1): >2.52
%volatiles:%100
Autoignitiontemperature:275°C
Explosionlimits:Lower: 0.9%v/v

FreezingPoint:-25°C
VaporPressure,10 mmHg@20°C
Solubilityinwater:nonmiscible
Evaporationrate:1.4
FlashPoint: 69°C
Upper:12%v/v

9.2. Other information

No data available

SECTION 10: StabilityAndReactivity

10.1.Reactivity

Reactswithwater andmoistureinairliberating methanol.

10.2.Chemical stability:

Stableinsealedcontainers stored.

10.3. Possibility of Hazardous Reactions

Reactswithwater andmoistureinairliberating methanol.

10.4. Conditionstoavoid:

Combustible;avoidcontactwith heat,sparks or openflame.

10.5. Incompatibility(materials to avoid):

Avoidcontactwith peroxides,oxidizing agents,alcohols, acids.

10.6. Hazardousdecomposition products:

Organicaminevapors.

SECTION 11:ToxicologicalInformation

11.1. Information on toxicological effects

Basisfor Assessment: Informationgivenis basedonproducttesting,and/or similar products,and/or components.

Acute OralToxicity: Expectedtobeoflowtoxicity:LD50>2000mg/kg, Rat
Aspirationinto thelungs whenswallowed or vomitedmaycausechemical pneumonitis, whichcanbefatal.

AcuteDermalToxicity: Expectedtobe oflowtoxicity:LD50>2000mg/kg, Rat
Acute InhalationToxicity: Lowtoxicity:LC50 greaterthannear-saturatedvapour concentration./4hours,Rat

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Skin Irritation: May cause moderate skin irritation (but insufficient to classify). Prolonged/repeated contact may cause defatting of the skin, which can lead to dermatitis. Eye Irritation: Essentially non-irritating to eyes.

Respiratory Irritation: Not expected to be a respiratory irritant.

Sensitisation: Not expected to be a skin sensitizer.

Repeated Dose Toxicity: Kidney: caused kidney effects in male rats, which are not considered relevant to humans.

Mutagenicity: Not expected to be mutagenic.

Carcinogenicity: Repeated exposure causes skin tumor promotion in experimental animals.

Reproductive and Developmental Toxicity: Not expected to be a developmental toxicant. Not expected to impair fertility.

SECTION 12: Ecological Information

12.1. Toxicity

Acute Toxicity

Ingestion: Toxicity: LD50 > 13450 mg/kg

Skin: Toxicity: LD50 > 3240 mg/kg

Toxicity to Fish and Aquatic Invertebrates: Low toxicity: LC/EC/IC50 > 980 mg/l

Toxicity to Algae: Low toxicity: LC/EC/IC50 > 9800 mg/l

12.2. Persistence/degradability:

Expected to be readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

12.3. Bioaccumulation potential

Has the potential to bioaccumulate.

12.4. Mobility

Floats on water. Adsorbs to soil and has low mobility.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No further relevant information available.

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SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system and surface water.

Uncleaned packagings:

Recommendation:

Waste disposal must meet criterias of both official and directives of 2008/98/EC, covering waste and dangerous waste

USA EPA

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. Transport Information

LAND(TDG): Not Regulated for Land Transport

LAND(DOT): Not Regulated for Land Transport

SEA(IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport.

SECTION 15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

WHMIS Classification: Not controlled

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the (M)SDS contains all the information required by the Controlled Products Regulations.

CEPA: All components of this material are either on the Canadian Domestic Substances List (DSL), exempt, or have been notified under CEPA.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, EINECS, ENCS, KECI, PICCS, TSCA

The Following Ingredients are Cited on the Lists Below: None.

--REGULATORY LIST SEARCHED--

1= TSCA 4,3= TSCA 5e5= TSCA 12b

2= TSCA 5a24= TSCA 66= NPRI

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

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ND: Not Determined, No Data; NA: NotApplicable; LD: Lethal Dose,
LC: Lethal Concentration;HMIS: Hazardous Material information System;
CAS No.: ChemicalAbstract Service Registration Number,
EC no: European Commission Number,
OEL:Observable effect level
WHMIS:Workplace Hazrdous material information system,
TWA:Time weighted average

ACGIH:American conference of industrial hygienist

TLV:Test of limit values

STEL: Short term exposure limitTSCA:The substance central act

CLA: Comprehensive environmental, response, compensation and liability act

OSHA:Occupation safety and health administration

DSL: Domestic substance list

NDSL: Non domestic substance list

AICS:Australian inventory of chemical substances

IECSC:Inventory of exiating chemical substances produced or imported in China

EINECS: European inventory of existing commercial chemical substances

KECI: Korean existing chemical inventory

PICS: Philippine inventory of chemical substances

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Prepared by R&D dep.Revised by Cem Dursunoglu (Code Art22)

TSE Approved MSDS Specialist(GBF1877)

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