

MATERIAL SAFETY DATA SHEET PROTECTION AGENT FOR PAINTS AND GLASS

1 Identification of the substance/preparation and of the company/ enterprise

1.1 Trade name: GoGoNano – Liquid Shield

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

Application of the substance / the preparation:

Finishing of paint and coatings Cleaning and protecting glass Industrial applications

1.3 Manufacturer: Digital Trade Solutions OÜ

Kose mnt 28-13 74310, Kehra Estonia

1.4 Emergency telephone number: +372 56470784

2 Hazards identification (#)

2.1 Classification of the mixture:

Classification according to directive 1272-2008-EC The mixture causes skin irritation category 2 with H315: causes skin irritation.

2.2 Labelling elements:

Labelling according to directive 1272-2008-EC skin irrit.2

Hazard pictogram: GHS 07



Signal word:

Warning

Hazard Statement(s):

H315: causes skin irritation

Precautionary Statements:

P280: Wear protective gloves.

P262: Do not get in eyes, on skin, or on clothing.

P302 + P352: IF ON SKIN: Wash with plenty of water/ soap.

P332 + P313: If skin irritation occurs: Get medical advice/attention

2.3 Other hazards:

Physical/ Chemical hazards: a small quantity of ethanol can be generated

during use.

Health hazards: with normal use, no immediate hazards.

Environmental hazards: slightly hazardous for water.

3 Composition and information on ingredients (#)

3.1 Substances: not applicable. This product is a mixture.

3.2 Mixtures:

Components of the mixture:

Ingredients	CAS-nbr.	GHS-CLP classification	H-	Weight%
	EC-nbr		phrases	in mixture
	Reg.nbr			
	Index nbr			
Triethoxyoctyl-	2943-75-1	Skin irrit.2	H315	50-100%
Silane	220-941-2			
	01-2119972313-39			
Isopropyl alcohol	67-63-0	Flam.liq.2	H225	1,3%
	200-661-7	Eye irrit.2	H319	
		Skin irrit.3		
		STOT SE 3	H336	
Ethanol	64-17-5	Flam.liq.2	H225	0.5%
	EG 200-578-6	-		
2-butoxyethanol	111-76-2	Acute tox.3 dermal	H311	
	203-905-0	Acute tox.3 inhalation	H311	
		Acute tox. 4 oral	H302	
		Skin irrit.2	H315	
		Eye irrit.2	H315	
2-methyl-2,4-	107-41-5	Eye irrit.2A	H319	0,5%
pentanediol	203-489-0	STOT SE 3	H336	
Water	007732-18-5	_	_	Up to
	231-791-2			100 %

Concentrations in weight percentage

See section 16 for the full text of the H-phrases.

4 First aid measures

4.1 Description

In general: immediately remove soiled, soaked clothing.
Inhalation: provide fresh air. In case of complaints, consult a

physician.

Skin contact: if contact with skin, immediately wash with water

and soap.

In case of long-term skin irritation, consult a

physician.

Eye contact: Keep eyelids open and rinse immediately and

thoroughly for at least 5 minutes with plenty of water, possibly with an eye rinse solution. In case

of persistent complaints, consult an

ophthalmologist.

Ingestion: rinse mouth thoroughly with water.

Give immediately plenty of water to drink in

small sips (dilution effect).

In case of complaints, consult a physician.

4.2 Important acute and delayed

symptoms and effects: skin irritation.

4.3 Indication of the required immediate

medical care and special treatment: treat symptomatically.

If larger quantities are swallowed, administer

activated carbon.

Acceleration of the stomach-intestinal transit

5 Measures for fire fighting

5.1 Extinguishing agents

Suitable extinguishing agents: alcohol resistant foam, carbon dioxide, dry

powder, water jet

Unsuitable extinguishing agents: full water jet

5.2 Particular hazards for fire fighting

Hazardous combustion products: In case of fire, carbon monoxide, carbon dioxide,

smoke, vapour and incomplete combustion

products can be released.

5.3 Advice for fire fighters

Instructions for fire fighting: Use (sprayed) water to cool neighbouring

packages and constructions. Extinguishing water should not flow into sewers, ground water or open surface waters. If it occurs, inform authorities. Take measures to collect

extinguishing water. Use standard protection gear

and in closed rooms, use an independent

breathing device.

Unusual fire hazards: unknown

> 93 °C, Method: **Properties of flammability:** DIN EN ISO 2719 Pensky-

Martens, Closed Cup

6 Measures in the event of accidental release of the substance or preparation

6.1 Personal precautions, protective gear and emergency procedures.

Indication: In case of accidental release, inform appropriate

authorities and apply the legislation in force.

Protective measures: avoid contact with eyes, skin and clothing. Avoid

contact with product and vapours. Wear personal

protection gear.

should not flow into sewers, soil, ground water or **6.2 Environmental precautions:**

open surface waters.

6.3 Clean up methods and material:

On the ground: Soak up with inert absorbent material. Put into a

suitable container for waste disposal.

On water: forms an emulsion.

Neutralization: n/a

Dispose in a safe manner according to local and **Disposal:**

national regulations.

6.4 Referral to other sections: for further information about monitoring

exposure and disposal, refer to sections 8 and 13.

7 Handling and storage

7.1 Precautions for safe handling of the mixture:

Handling: Avoid contact with eyes, skin and clothing.

Avoid inhalation of vapours and aerosols.

Provide sufficient ventilation. Wash hands before every break and immediately after the use of the

product.

Loading and unloading temperature:

ambient temperature ambient temperature **Transport temperature:**

7.2 Safe storage conditions including incompatible products:

Storage temperature: store at temperatures between 5 and 30°C.

> For quality reasons: do not expose to temperatures below the freezing point.

Suitable packaging: LDPE buckets, 25 KG and smaller, packaging

suitable for injection equipment.

poly-ethylene, poly-propylene, carbon steel, Suitable materials and coatings:

stainless steel.

Unsuitable materials and coatings: do not use materials which are corroded by water.

see section 1 for identified final use. 7.3 specific final uses:

8 Measures to control exposure - personal protection (#)

8.1 Control parameters / exposure limits

MAC values: The product does not contain substances for

which MAC values are determined.

DNEL / DMEL values: DNEL / DMEL values are not available.

PNEC values: PNEC values are not available.

8.2 Measures for exposure control/ Personal protection

Respiratory protection In case of development of vapours/ aerosols:

short-term use, filtering device, combination filter

A-P2

Hand protection: glove material For example, butyl rubber

Material strength 0,5 mm Penetration time >= 480 min

For example, fluorocarbon rubber (viton)

Material strength 0,4 mm Penetration time >= 480 min

Eye protection: well fitted safety goggles

Skin and body protectionWear suitable clothing for the method of use. **Specific hygiene measures**Do not eat, drink or smoke during use. Wash

hands and/or face before every break and after

use.

Environmental controlTake necessary measures to prevent product from

flowing into the environment.

9 Physical and chemical properties

Phase: Highly viscous gel

Colour: white

slight, ester-like Odour: neutral, 6.5 - 7.5pH: Freezing point (°C): not available 3 °C to 40 °C Stability: Application temperature 15 °C to 35 °C Melting point (°C): not available Boiling point (°C): not available Decomposition temperature (°C): not available

Viscosity, dynamic 2 mPas (20 °C), method: DIN 53 015

Specific density (Kg/dm³) 0.92 (#) Relative density vs. water: 0.92 (#)

Viscosity, dynamic 100 - 1.500 mPas at 25 °C

Bulk density (Kg/m³): not applicable Vapour pressure (kPa): cfr. water

Solubility in water (g/ 100 ml): miscible

Flash point (°C): > 93 °C, Method: DIN EN ISO 2719

Pensky-Martens, Closed Cup

Self ignition temperature (°C): not applicable Explosiveness: not explosive

Explosion limit - lower (°C): 0.5% (V)(200 °C) method: DIN EN 1839 Explosion limit – upper (°C): > 13.5%(V) (200 °C) method: DIN EN 1839

Log P octanol / water at 20 °C: not applicable Evaporation speed: cf. Water Oxidation – properties: cf. Water Specific conductivity (S/m): cf. Water

10 Stability and reactivity

10.1 Reactivity reacts with acids, forming ethanol.10.2 Chemical stability: stable under normal circumstances.

10.3 Potential hazardous reactions: heat development

10.4 Circumstance to be avoided: other than normal use, avoid evaporation of the

emulsion. Prevent from freezing.

10.5 Chemical reactive substances: not known

10.6 Hazardous decomposition products: product does not decompose at room temperature

11 Toxicological information

These data are for n-octyltriethoxysilane, the most important component of the preparation.

11.1 Toxicological information

Acute oral toxicity: LD50 rat: > 5110 mg/kg

Acute inhaling toxicity: method: OECD Test Directive 401
LC0 rat: 22 ppm / 4 h / vapour
method: OECD Test Directive 403

maximum reachable concentration in the test: no

animal died.

Acute dermal toxicity: LD50 rabbit: 6730 mg/kg

Method: OECD Test Directive 402

Skin irritation rabbit irritating

method: OECD Test Directive 404

Eye irritation: rabbit not irritating

method: OECD Test Directive 405

Sensitisation: Maximizing test guinea pig: Has no sensitizing

effect.

method: OECD Test Directive 406

test material: structurally similar substance

Repeated dose toxicity: Oral rat / 28 days

NOAEL: 300 mg/kg, method:

OECD TG 422

STOT single exposure: The substance of the mixture is not classified as

toxic to specific target organ, single exposure.

STOT repeated exposure: The substance of the mixture is not classified as

toxic to specific target organ, repeated exposure.

Aspiration toxicity: no indications related to aspiration toxicity **Gene toxicity in vitro:** Ames test Salmonella typhimurium, negative,

method: OECD TG 471

Chromosomal aberration Chinese hamster (CHO K1 -cells) negative, method: OECD TG 473

Gene mutation in infant cells: TK +/- mouse-lymphoma cells (L5178Y), negative,

method: OECD TG 476

Carcinogenicity: no data available

Toxicity related to reproduction: Screening of toxicity for reproduction/

developmental toxicity: Oral rat, exposure

frequency: daily

NOAEL (No Observed Adverse Effect Level)

parents method: OECD TG 422 Screening of toxicity for reproduction/ developmental toxicity: Oral rat, exposure

frequency: daily

NOAEL F1: 300 mg/kg, method: OECD TG 422

12 Environmental information

12.1 Toxicity

Toxicity for fish: In the context of water solubility, the product is

not toxic under testing circumstances.

Toxicity for bacteria: EC50 Organic mud municipal purification: >

1000 mg/l / 3 h, method: OECD TG 209

NOEC Organic mud municipal purification: >=

1000 mg/l / 3 h, method: OECD TG 209

12.2 Persistence and degradability

Biological degradability Exposure time: 28 d, 31,5 % Not easily

biodegradable, method: OECD TG 301 D

12.3 Bioaccumulation not bioaccumulative

12.4 Mobility in the soil absorption within the soil: low.

12.5 Results of PBT and vPvB assessmentaccording to the REACH criteria no PBT-, vPvB-

mixture.

12.6 Other harmful effects

Other ecological information the available data do not lead to environmental

hazards.

13 Instructions for safe disposal

13.1 Waste processing methods

Product:

Can be incinerated if in accordance with local legislation or disposed taking into consideration the necessary technical regulations and in consultation with a certified processor.

Contaminated packaging

Dispose as unused product.

Waste code number

The waste code number has to be determined in accordance with the European waste code list, 2000/532/EC in consultation with the waste processor/ manufacturer/ authorities.

.

14 Transport information

Transport / more information

ADR / IATA-DGR: the preparation is not considered as a hazardous chemical substance according to the National and International laws and regulations related to the transport of hazardous chemical substances.

Keep away from food and animal feed.

14.1. UN-number: -

14.2. Proper shipping name according to

UN Model Regulations: -

14.3. Transport hazard class: -

14.4. Packaging group:

14.5. Environmental hazards:

14.6 Special user precautions:

15 Regulatory information

Regulatory status and applicable laws and regulations

15.1 specific laws and regulations concerning the safety, health and environment for the substance or the mixture.

The following EC directives and regulations are applicable

98/24/EC concerning the protection of the employees against the risk of chemical substances on the work floor.

1272/2008/EC concerning the classification, labelling and packaging of substances and mixtures.

453/2010/EC, registration and assessment of chemical substances - REACH

15.2 chemical safety assessment

REACH information: a chemical safety assessment has been performed for one or more substances present in the product. A safety assessment of the mixture has not been performed, meaning that the DNEL and PNEC values of the mixture are unknown.

16 Further information

This safety information sheet has been edited according to 453/2010/EC.

This safety information sheet is exclusively meant for industrial and professional use.

Text of the H-phrases referenced under section 3:

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

MSDS Page: upper right corner, first line

MSDS Revision: upper right corner, second line Revision date: upper right corner, third line

Date previous revision: upper right corner, fourth line Manufacturer: Digital Trade Solutions OÜ

Revised parts: Sections 2-3 were adapted according to

CLP directives. The sections 8 and 16

were reviewed.

changes with reference to previous versions are marked with "#".

Information sources: Original MSDS and specifications from

Manufacturers.

Abbreviations and acronyms

Acute tox 3: acute toxicity category 3 Acute tox 4: acute toxicity category 4

ADR: Accord européen relatif au transport international des marchandises Dangereuses par

Route – European agreement related to international transport of hazardous goods by road.

cf: confer, compare to

CLP: Classification, Labelling and Packaging of substances and mixtures, reference to

Directive 1272-2008

CAS nr: Chemical Abstract Service, important registration authority for release of chemical substances.

DNEL: Derived No Effect Level – an estimated safe exposure level.

EC-nbr: registration number of the European Community for chemical products.

EC50: Effective Concentration median

Eye irrit 2: eye irritation category 2

Flam. Liq.2: Flammable liquid category 2

GHS: United Nations Globally Harmonized System

Weight%: weight percentage

H: **H**azard statement – hazard statement for substances and mixtures according to Directive 1272-2008

IATA: International Air Transport Association – regulations concerning the international transport of hazardous substances by air.

Index nbr.: identification number of hazardous chemical substances.

LC50: Lethal Concentration median

LD50: Lethal Dose median

MSDS: Material Safety Data Sheet

n.a.: not applicable

NIOSH: National Institute for Occupational Safety and Health – American institute for safety and health.

P: Precautionary statement – safety recommendations or precautionary measures according to Directive 1272-2008

PBT: **P**ersistent **B**ioaccumulative and **T**oxic substances – with reference to Directive 1907-2006.

PG: Packaging Group

REACH: Registration, Evaluation and Authorization of Chemicals, reference to Directive 1907-2006

Reg.nr.: registration number Rep.: replaces edition dd.

Skin irrit. 2: skin irritation category 2 Skin irrit. 3: skin irritation category 3

STOT SE 3: Specific Target Organ Toxicity Single Exposure.

STOT

UN: United Nations

vPvB: very Persistent and very Bioaccumulative

Classification: the classification of the mixture was determined by calculation, taking into account the Directives indicated in Directive 1272/288/EC and the available data of the suppliers. Physical provisions, such as density, pH, flash point,... were performed when necessary and if decisive for the classification.

Further information

This version replaces all previous versions.

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.