



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of product	4905100 NANO Decoration orange 125 ml
Manufacturer/distributor	TGK GmbH Helleforthstraße 18 - 20, D-33758 Schloß Holte - Stukenbrock Phone 05207 91280, Fax 05207 912840 E-Mail tgk@tgk.de Internet www.tgk.de
Advice	Phone 05207 91280 Fax 05207 912840
Emergency advice	Phone 05207 91280

2. HAZARDS IDENTIFICATION

Classification

F; R11
Xi; R36
Xi; R36/38

R-phrases

11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.

Special hazards information for humans and environment

Highly flammable.
Irritating to eyes.
May cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

CAS No	EC No	Name	[%]	Classification
13822-56-5	237-511-5	3-(Trimethoxysilyl)propylamin	1 - 5	
67-63-0	200-661-7	propan-2-ol	> 40	

4. FIRST AID MEASURES

General information

In the event of persistent symptoms receive medical treatment.
Take affected person into fresh air.

In case of inhalation

Ensure of fresh air.
In the event of symptoms refer for medical treatment.



In case of skin contact

In case of contact with skin wash off with soap and water.
Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Do not induce vomiting.
Seek medical advice immediately.
Rinse out mouth and give plenty of water to drink.

Physician's information / possible symptoms

The following symptoms may occur:
Nausea
Confusion
Dizziness

Treatment (Advice to doctor)

Treat symptoms.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Foam
Dry powder
Carbon dioxide
Water spray jet

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂)

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.
Wear full protective clothing.

Additional information

Cool endangered containers with water spray jet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Remove persons to safety.
Use personal protective clothing.
Keep away sources of ignition.
High risk of slipping due to leakage/spillage of product.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.



Methods for cleaning up

Take up with absorbent material (e.g. sand).
After taking up the material dispose according to regulation.

Additional Information

Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 8.
Informations for disposal see chapter 13.

! 7. HANDLING AND STORAGE

Advice on safe handling

Take measures against electrostatically charging.
Provide good room ventilation even at ground level (vapours are heavier than air).
Use solvent-resistant equipment.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
The product is easy combustible.
Vapours can form an explosive mixture with air.
The vapours of product are heavier than air.

Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor.

Advice on storage compatibility

Keep at distance to combustile materials.
Do not store together with oxidizing agents.

! Further information on storage conditions

Keep container tightly closed.
Protect from frost.
Do not keep containers unlocked.
Keep container in a well-ventilated place

Storage group 3A

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional advice on system design

Provide for sufficient exhaust air.
Provide protective equipments.

biological limits (TRGS 903)

CAS No	Name	Parameter	BGW	Unter- suchungs- material	Proben- nahme- zeitpunkt
67-63-0	propan-2-ol	Aceton	50 mg/l	B	b
67-63-0	propan-2-ol	Aceton	50 mg/l	U	b

Respiratory protection

If ventilation insufficient, wear respiratory protection.
Short term: filter apparatus, filter A

Hand protection

Rubber gloves

Eye protection

safety goggles



Skin protection

light protective clothing

General protective measures

Do not inhale vapours.

Avoid contact with eyes and skin

Hygiene measures

At work do not eat, drink, smoke or take drugs.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
liquid

Colour
various, depending on coloration

Odour
alcoholic

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	9,5 - 10,5				Determined in 1% suspension in distilled water.
Flash point	12,3 °C				
Flammable solid	no				
Ignition temperature	not applicable				
Autoignition	no				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Density	0,81 - 0,95 g/ml				
Solubility in water					partially miscible
Solubility/other			polar solvents		
Partition coefficient (log p_{OW})	not determined				
Viscosity 1	2,56 mPa*s				
Solvent separation test	not determined				
Solvent concentration	> 40 Gew-%				
Oxidizing properties	no				



Explosive properties

no

Additional information

Vapours are heavier than air.

10. STABILITY AND REACTIVITY

Conditions to avoid

Evolution of explosive gases/vapours.

Materials to avoid

Reactions with strong oxidising agents.

Hazardous decomposition products

Ethanol
methanol

Additional information

no

11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD 50 acute oral	not determined	rat		
LD 50 acute dermal	not determined	rat		
LC 50 acute inhalation	not determined	rat		
Irritability eye	irritant			
Skin sensitization		no		

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Subacute Toxicity	not determined			
Chronic Toxicity	not determined			
Mutagenicity	not determined			

Experiences made from practice

Concentrations substantial above MAK-value may effect narcotic.

Additional information

The product was classified on the basis of the calculation procedure of the preparation directive (88/379/EEC).



12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	The organic component of the product is biodegradable.			
Biological eliminability	The organic component of the product is biodegradable.			
Mobility and bioaccumulative potential	not determined			

13. DISPOSAL CONSIDERATIONS

Waste code No.	Name of waste
20 01 27*	paint, inks, adhesives and resins containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product
Incinerate in suitable incineration plant, but care for official regulations.

Recommendations for packaging
Packaging that cannot be cleaned should be disposed of like the product.

14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID
UN 1263 PAINT (Isopropanol), 3, II, Special provisions 640D

Marine transport IMDG
UN 1263 PAINT, 3, II

Air transport ICAO/IATA-DGR
UN 1263 Paint, 3, II

Transport/further information
Regulations concerning free quantities are to be observed.

15. REGULATORY INFORMATION

Remarks for classification
The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

Classification
F Highly flammable
Xi Irritant

R-phrases
11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.



S-phrases

- | | |
|-------|---|
| 16 | Keep away from sources of ignition - No smoking. |
| 24/25 | Avoid contact with skin and eyes. |
| 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| 7 | Keep container tightly closed. |

Special labelling for certain preparations

Vapours may cause drowsiness and dizziness.

National regulations

Restriction of occupation

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

Water hazard class 2

16. OTHER INFORMATION

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)

R 36 Irritating to eyes.

R 67 Vapours may cause drowsiness and dizziness.