

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

NEUTRO COLOR

Date of first edition: 2/26/2021 Safety Data Sheet dated 05/10/2023

version 4

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

1.1. Product identifier

Mixture identification:

Trade name: NEUTRO COLOR Trade code: FBIFC620- 4

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

Recommended use: Adhesives, sealants

Uses advised against: All uses other than recommended ones **1.3. Details of the supplier of the safety data sheet**

Company: KERAKOLL France

25, avenue de l'Industrie - 69960 Corbas - France

Tel. +33 472 890 684 safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112 Kerakoll Italy - +39-0536-816511 Ireland Poison information centre: 01 809 2166 (Daily 8am-10pm) In case of emergency call 999 or 112 Malta In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

EUH210 Safety data sheet available on request.

Contains

3-aminopropyltriethoxysilane May produce an allergic reaction.

Trimethoxyvinilsilane May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: NEUTRO COLOR

Hazardous components within the meaning of the CLP regulation and related classification:

Qty Name Ident. Numb. Classification Registration Number

Date 13/10/2023 Production Name NEUTRO COLOR Page n. 1 of 11

1-2.5 % 3-Aminopropyl(methyl) CAS:128446-60- Skin Irrit. 2, H315; Flam. Liq. 3, silsesquioxanes, ethoxy- 6 H226; Eye Irrit. 2, H319

terminated EC:603-274-5

0.5-1 % 3-aminopropyltriethoxysilane CAS:919-30-2 Skin Corr. 1B, H314; Acute Tox. 4, 01-2119480479-24

EC:213-048-4 H302; Skin Sens. 1, H317

Index:612-108-00-0

0.5-1 % Trimethoxyvinilsilane CAS:2768-02-7 Skin Sens. 1B, H317; Flam. Liq. 2, 01-2119513215-52

EC:220-449-8 H225; Acute Tox. 4, H332

Index:014-049-

00-0

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

 $\hbox{Collect contaminated fire extinguishing water separately. This must not be discharged into drains. } \\$

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

 Date
 13/10/2023
 Production Name
 NEUTRO COLOR
 Page n. 2 of 11

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1. Control parameters					
Community Occupational Exposure Limits (OEL)					
	OEL Type	Country	Occupational Exposure Limit		
3-aminopropyltriethoxysilane CAS: 919-30-2		FINLAND	Long Term: 28 mg/m3 - 3 ppm; Short Term: 55 mg/m3 - 6 ppm Source: HTP-ARVOT 2020		
Carbon black CAS: 1333-86-4	ACGIH		Long Term: 3 mg/m3 (8h) I, A3 - Bronchitis		
	NATION AL	AUSTRALIA	Long Term: 3 mg/m3		
	NATION AL	BELGIUM	Long Term: 3 mg/m3 Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1		
	NATION AL	CROATIA	Long Term: 3.5 mg/m3; Short Term: 7 mg/m3 Source: NN 1/2021		
	NATION AL	DENMARK	Long Term: 3.5 mg/m3 K		
NATION FINLAND AL NATION FRANCE AL			Source: BEK nr 2203 af 29/11/2021		
		FINLAND	Long Term: 3.5 mg/m3; Short Term: 7 mg/m3 Source: HTP-ARVOT 2020		
		FRANCE	Long Term: 3.5 mg/m3 Source: INRS outil65		
	NATION AL	GREECE	Long Term: 3.5 mg/m3; Short Term: 7 mg/m3 Source: ΦEK 94/A` 13.5.1999		
	NATION AL	HUNGARY	Long Term: 3 mg/m3 belélegezheto koncentráció Source: 5/2020. (II. 6.) ITM rendelet		
	NATION AL	IRELAND	Long Term: 3 mg/m3 I Source: 2021 Code of Practice		
	NATION AL	NORWAY	Long Term: 3.5 mg/m3 Source: FOR-2021-06-28-2248		
	NATION AL	POLAND	Long Term: 4 mg/m3 4) Source: Dz.U. 2018 poz. 1286		
	NATION AL	SPAIN	Long Term: 3.5 mg/m3 Source: LEP 2022		
	NATION AL	SWEDEN	Long Term: 3 mg/m3 Source: AFS 2021:3		
titanium dioxide CAS: 13463-67-7	ACGIH		Long Term: 2.5 mg/m3 (8h) Finescale particles; R; A3 - LRT irr, pneumoconiosis		

Date 13/10/2023 Production Name NEUTRO COLOR Page n. 3 of 11

NATION AUSTRALIA Long Term: 10 mg/m3 (8h)

NATION AUSTRIA Long Term: 5 mg/m3; Short Term: 10 mg/m3

60(Miw), 2x, MAK, A AL

Source: BGBl. II Nr. 156/2021

NATION BELGIUM Long Term: 10 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATION BULGARIA Long Term: 10 mg/m3

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. НАРЕДБА № 10 ОТ 26 СЕПТЕМВРИ

2003

NATION CROATIA Long Term: 10 mg/m3

AL

Source: NN 1/2021

NATION CROATIA Long Term: 4 mg/m3

Source: NN 1/2021

Long Term: 6 mg/m3 NATION DENMARK

Source: BEK nr 2203 af 29/11/2021

NATION ESTONIA Long Term: 5 mg/m3

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 ΑL

NATION FRANCE Long Term: 10 mg/m3 Cancérogène de catégorie 2 AL

Source: INRS outil65

NATION GERMANY Long Term: 0.3 mg/m3; Short Term: 2.4 mg/m3

DFG; Long term and short term: excluding ultrafine particles; respirable fraction; AL

multiplied by the material density;

Source: TRGS900

NATION GREECE Long Term: 10 mg/m3

e?sp?.

AL

Source: ΦΕΚ 94/A` 13.5.1999

NATION GREECE Long Term: 5 mg/m3

a?ap?. AL

Source: ΦΕΚ 94/A` 13.5.1999

NATION IRELAND Long Term: 10 mg/m3

Source: 2021 Code of Practice

NATION IRELAND Long Term: 4 mg/m3

Source: 2021 Code of Practice

NATION LATVIA Long Term: 10 mg/m3 Source: KN325P1 ΑI

NATION LITHUANIA Long Term: 5 mg/m3

Source: 2011 m. rugsejo 1 d. Nr. V-824/A1-389

NATION NORWAY Long Term: 5 mg/m3

Source: FOR-2021-06-28-2248

NATION POLAND Long Term: 10 mg/m3

ΑL 4), 7)

Source: Dz.U. 2018 poz. 1286

NATION ROMANIA Long Term: 10 mg/m3; Short Term: 15 mg/m3

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATION SLOVAKIA Long Term: 5 mg/m3

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATION SPAIN Long Term: 10 mg/m3 Source: LEP 2022

NATION SWEDEN Long Term: 5 mg/m3 ΔI

Source: AFS 2021:3

Predicted No Effect Concentration (PNEC) values

Date 13/10/2023 **Production Name NEUTRO COLOR** Page n. 4 of 3- Exposure Route: Fresh Water; PNEC Limit: 330 μg/l

aminopropyltriethoxysilan

е

CAS: 919-30-2

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 3.3 mg/l

Exposure Route: Marine water; PNEC Limit: 33 µg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 13 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1.2 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 120 µg/kg

Exposure Route: Soil; PNEC Limit: 50 µg/kg

Trimethoxyvinilsilane CAS: 2768-02-7

Exposure Route: Fresh Water; PNEC Limit: 400 μg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2.4 mg/l

Exposure Route: Marine water; PNEC Limit: 40 µg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6.6 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1.5 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 150 µg/kg

Exposure Route: Soil; PNEC Limit: 60 µg/kg

Derived No Effect Level (DNEL) values

3- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

aminopropyltriethoxysilan Worker Professional: 59 mg/m³; Consumer: 17.4 mg/m³

CAS: 919-30-2

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Professional: 59 mg/m³; Consumer: 17.4 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 8.3 mg/kg; Consumer: 5 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Professional: 8.3 mg/kg; Consumer: 5 mg/kg

Trimethoxyvinilsilane

CAS: 2768-02-7

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 27.6 mg/m³; Consumer: 6.7 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Professional: 260 mg/m³; Consumer: 50 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Professional: 3.9 mg/kg; Consumer: 7.8 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 300 µg/kg

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Butyl rubber . Nitrile rubber

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid

Color: In compliance with the product description

Date 13/10/2023 Production Name NEUTRO COLOR Page n. 5 of 11

Odour: Characteristic Odour threshold: N.A.

pH: N.A.

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: N.A. Relative density: 1.02 g/cm3 Solubility in water: N.A. Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 0 %; 0 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

Date 13/10/2023 Production Name NEUTRO COLOR Page n. 6 of 11

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

3- a) acute toxicity LD50 Oral Rat = 1460 mg/kg aminopropyltriethoxysilan

a..

LC50 Inhalation Vapour Rat Negative 6h LD50 Skin Rabbit = 4076 mg/kg 24h

b) skin corrosion/irritation Skin Corrosive Rabbit Positive

c) serious eye damage/irritation

Eye Irritant Rabbit Yes

d) respiratory or skin sensitisation

skin

Skin Sensitization Guineapig Positive

f) carcinogenicity Genotoxicity Negative

Mouse intraperitoneal rout

g) reproductive toxicity

No Observed Adverse Effect Level Oral Rat = 600

mg/kg

Trimethoxyvinilsilane

a) acute toxicity LD50 Oral Rat = 7.34 ml/Kg

LC50 Inhalation Vapour Rat = 2773 Ppm 4h

LD50 Skin Rabbit = 3.36 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Negative 24h

c) serious eye damage/irritation

Eye Irritant Rabbit No 24h

d) respiratory or skin sensitisation

Skin Sensitization Guineapig Positive

f) carcinogenicity Genotoxicity Rat Negative

Inhalation route

g) reproductive toxicity

No Observed Adverse Effect Level Oral Rat = 250

mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

- EINECS: 220-449-8 - INDEX: 014-049-00-0

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
3-aminopropyltriethoxysilane	CAS: 919-30-2 - EINECS: 213- 048-4 - INDEX: 612-108-00-0	a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio > 934 mg/L 96h
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 331 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae Scenedesmus subspicatus > 1000 mg/L 72h
		c) Bacteria toxicity: EC50 Pseudomonas putida = 43 mg/L
Trimethoxyvinilsilane	CAS: 2768-02-7	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 137 mg/L 96h

a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 121 mg/L 48h

b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 20 mg/L -

Date 13/10/2023 Production Name NEUTRO COLOR Page n. 7 of 11

21days

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata > 89

mg/L 72h

a) Aquatic acute toxicity: EC10 microorganisms > 100 mg/L 3h OECD 209

12.2. Persistence and degradability

Component Persitence/Degradability: Test Value Notes:

3-aminopropyltriethoxysilane Non-readily biodegradable Dissolved organic carbon 67.000 %; EU method C4-A;

28days

Trimethoxyvinilsilane Readily biodegradable

12.3. Bioaccumulative potential

ComponentBioaccumulationTestValueNotes:3-aminopropyltriethoxysilaneBioaccumulativeBCF - Bioconcentrantion3.400OECD 305

factor

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Date 13/10/2023 Production Name NEUTRO COLOR Page n. 8 of 11

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Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
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Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: 40, 52, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

2: Hazard to waters

SVHC Substances:

Code

3.4.2/1

No SVHC substances present in concentration >= 0.1%

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Description

Skin Sens. 1

H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
Code	Hazard class and hazard category	Description
Code 2.6/2	Hazard class and hazard category Flam. Liq. 2	Description Flammable liquid, Category 2
	- ,	•
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/2 2.6/3	Flam. Liq. 2 Flam. Liq. 3	Flammable liquid, Category 2 Flammable liquid, Category 3
2.6/2 2.6/3 3.1/4/Inhal	Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4	Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (inhalation), Category 4
2.6/2 2.6/3 3.1/4/Inhal 3.1/4/Oral	Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4	Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4
2.6/2 2.6/3 3.1/4/Inhal 3.1/4/Oral 3.2/1B	Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B	Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B

Date 13/10/2023 **Production Name NEUTRO COLOR** Page n. 9 of 11

Skin Sensitisation, Category 1

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

 ${\it CLP: Classification, Labeling, Packaging.}$

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

Date 13/10/2023 Production Name NEUTRO COLOR Page n. 10 of 11

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

 Date
 13/10/2023
 Production Name
 NEUTRO COLOR
 Page n. 11 of 11



Exposure Scenario, 08/06/2021

Substance identity		
	Trimethoxyvinilsilane	
CAS No.	2768-02-7	
INDEX No.	014-049-00-0	
EINECS No.	220-449-8	
Registration number	01-2119513215-52	

Table of contents

1. **ES 1**

1. ES 1

1.1 TITLE SECTION

Exposure Scenario name	Use in rigid foams, coatings, adhesives and sealants - Barrier (Sealant)
Date - Version	18/05/2021 - 1.0
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22) - Building and construction work (SU19)
Product Categories	Adhesives, sealants (PC1)

Environment Contributing Scenario

CS1 Low environmental release	ERC8c - ERC8f
Worker Contributing Scenario	
CS2 Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application	PROC0
CS3 Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application	PROC1

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Low environmental release (ERC8c, ERC8f)

Environmental release	Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to
categories	inclusion into/onto article (outdoor) (ERC8c, ERC8f)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Concentration after dilution for use maximum [%]: 0.7 %

Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site = 0.28 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Water - minimum efficiency of: 1.5 %

Conditions and measures related to sewage treatment plant

STP type:

Onsite Sewage Treatment Plant

Water - minimum efficiency of: = 0.013 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Dispose of waste product or used containers according to local regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100 Local freshwater dilution factor: 10 Receiving surface water flow: 20000 m³/day Covers indoor and outdoor use

1.2. CS2: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROCO)

Process Categories

Other (PROCO)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 0.7 %

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration <= 6 h

Frequency:

Use frequency = 250 days per year

Technical and organisational conditions and measures

Technical and organisational measures

Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

For further specification, refer to section 8 of the SDS.

Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

Room size: Covers use in room size of = 20 m³

Temperature: Covers use at ambient temperatures. 25°C

1.2. CS3: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROC1)

Process Categories

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 2 %

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration = 8 h

Frequency:

Use frequency = 1 days per year

Duration:

Covers use up to = 6 h

Frequency:

Use frequency = 1 days per year

Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

Room size: Covers use in room size of = 20 m³ **Ventilation rate:** = 0.6 ach (air changes per hour)

1.3 Exposure estimation and reference to its source

1.3. CS2: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROCO)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 1.9 mg/m ³	N/A	= 0.069
dermal, long-term	= 4.53 mg/kg bw/day	ConsExpo	= 0.038
combined routes, long-term	N/A	N/A	0.107

1.3. CS3: Worker Contributing Scenario: Wiping - Hand application - finger paints, pastels, adhesives - Preparation of material for application (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, long-term	= 4.57 mg/m ³	N/A	= 0.682
dermal, long-term	= 0.044 mg/kg bw/day	ConsExpo	< 0.01
combined routes, short-term	N/A	N/A	0.682

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



Exposure Scenario, 14/07/2021

Substance identity		
	3-aminopropyltriethoxysilane	
CAS No.	919-30-2	
INDEX No.	612-108-00-0	
EINECS No.	213-048-4	
Registration number	01-2119480479-24	

Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC9a, PC1)

1. ES 1 Widespread use by professional workers; Various products (PC9a, PC1)

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Exposure Scenario name	Professional application of coatings and inks by spraying - Use in rigid foams, coatings, adhesives and sealants
Date - Version	14/07/2021 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Coatings and paints, thinners, paint removers (PC9a) - Adhesives, sealants (PC1)

Worker Contributing Scenario

CS1 Rolling, Brushing	PROC10
CS2 Roller, spreader, flow application	PROC11

1.2 Conditions of use affecting exposure

1.2. CS1: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories	Roller application or brushing (PROC10)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 2 %

Amount used, frequency and duration of use/exposure

Amounts used:

Annual site tonnage = 0.2 t(onnes)/year Daily amount per site = 0.5 kg/day

Duration:

Exposure duration = 4 h

Frequency:

Covers exposure up to = 365 days per year

Technical and organisational conditions and measures

Technical and organisational measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Use in contained systems

For further specification, refer to section 8 of the SDS.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable respiratory protection.

For further specification, refer to section 8 of the SDS.

1.2. CS2: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Process Categories	Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 2 %

Amount used, frequency and duration of use/exposure

Amounts used:

Annual site tonnage = 0.2 t(onnes)/year Daily amount per site = 0.5 kg/day

Duration:

Exposure duration = 4 h

Frequency:

Covers exposure up to = 365 days per year

Technical and organisational conditions and measures

Technical and organisational measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Use in contained systems

For further specification, refer to section 8 of the SDS.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable respiratory protection.

For further specification, refer to section 8 of the SDS.

1.3 Exposure estimation and reference to its source

1.3. CS1: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal	= 0.055 mg/kg bw/day	ECETOC TRA worker v3	N/A
inhalative	= 1.8 mg/m ³	ECETOC TRA worker v3	N/A

1.3. CS2: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal	= 0.21 mg/kg bw/day	ECETOC TRA worker v3	N/A
inhalative	= 46 mg/m ³	ECETOC TRA worker v3	N/A

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.