

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
 Product name : Nissen SOLID PAINT MARKER
 Synonyms : Nissen SOLID PAINT MARKER White, Yellow, Red, Black, Blue, Green, Fluorescent Yellow / Low Corrosion White, Low Corrosion Yellow, Low Corrosion Red, Low Corrosion Black

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Industrial/Professional use spec : Industrial
 For professional use only
 Use of the substance/mixture : Marking.

1.2.2. Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

North America:

LA-CO Industries, Inc.
 1201 Pratt Boulevard
 Elk Grove Village, IL. 60007-5746
 Phone: (847) 956-7600
 Fax: (847) 956-9885
 E-mail: customer_service@laco.com

Europe:

LA-CO Industries Europe S.A.S.
 Parc Industriel de la Plaine de
 l'Ain - Allée des Combes.
 01150.BLYES.France.
 Phone: +33 (0)4 74 46 23 23
 Fax: +33 (0)4 74 46 23 29
 E-mail: info@eu.laco.com
 Web: http://www.markal.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 Minsk 220115	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistustebekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Hazardous ingredients :

ethyl lactate; Stearmide MEA

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Hazard statements (CLP)	: H315 - Causes skin irritation. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P264 - Wash hands thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor P321 - Specific treatment (see First aid measures on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS	: 64.17% of the mixture consists of ingredient(s) of unknown acute oral toxicity 64.17% of the mixture consists of ingredient(s) of unknown acute dermal toxicity 64.17% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity
Unknown hazards to the aquatic environment (CLP)	: Contains 52.54 % of components with unknown hazards to the aquatic environment

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	0 – 20	Not classified
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	5 – 15	Flam. Liq. 2, H225
Stearamide MEA	(CAS-No.) 111-57-9 (EC-No.) 203-883-2	5 – 15	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Calcium silicon trioxide (wollastonite)	(CAS-No.) 13983-17-0 (EC-No.) 237-772-5	1 – 10	Not classified
Methyl ester, soybean oil	(CAS-No.) 68919-53-9 (EC-No.) 272-898-4	1 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
ethyl lactate	(CAS-No.) 97-64-3 (EC-No.) 202-598-0 (EC Index-No.) 607-129-00-7	1 – 5	Flam. Liq. 3, H226 Eye Dam. 1, H318 STOT SE 3, H335
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	0.1 – 2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butyl acetate	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1	0.1 – 2	Flam. Liq. 3, H226 STOT SE 3, H336
2-methoxy-1-methylethyl acetate	(CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index-No.) 607-195-00-7	0.1 – 1	Flam. Liq. 3, H226
barium sulfate	(CAS-No.) 7727-43-7 (EC-No.) 231-784-4	0 – 1	Not classified
butan-2-ol;sec-butyl alcohol	(CAS-No.) 78-92-2 (EC-No.) 201158-5 (EC Index-No.) 603-127-00-5	0.1 – 1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H336 STOT SE 3, H335
2-aminoethanol	(CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8	0.1 – 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 STOT SE 3, H335

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

limestone	(CAS-No.) 1317-65-3 (EC-No.) 215-279-6	< 0.2	Not classified
Kaolin	(CAS-No.) 1332-58-7 (EC-No.) 310-194-1	< 0.2	Not classified

Specific concentration limits:

Name	Product identifier	Specific concentration limits
2-aminoethanol	(CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8	(C >= 5) STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Burning produces irritating, toxic and noxious fumes.
- Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/ flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Contain and collect as any solid.
- Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep only in the original container.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanol (64-17-5)		
Austria	MAK (mg/m ³)	1900 mg/m ³
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m ³)	3800 mg/m ³ max. 3x60 min./Schicht (gemessen als Momentanwert)
Austria	MAK Short time value (ppm)	2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert)
Belgium	Limit value (mg/m ³)	1907 mg/m ³
Belgium	Limit value (ppm)	1000 ppm
Czech Republic	Local name	Ethanol
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	530 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	3000 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	1590 ppm
Denmark	Local name	Ethanol (Ethylalkohol)
Denmark	Grænseværdie (langvarig) (mg/m ³)	1900 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	1000 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	3800 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	2000 ppm
Finland	Local name	Etanoli
Finland	HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1000 ppm
Finland	HTP-arvo (15 min)	2500 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	1300 ppm
France	Local name	Alcool éthylique
France	VME (mg/m ³)	1900 mg/m ³
France	VME (ppm)	1000 ppm
France	VLE (mg/m ³)	9500 mg/m ³
France	VLE (ppm)	5000 ppm
France	Note (FR)	Valeurs recommandées/admises
Germany	Local name	Ethanol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	960 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Germany	Remark (TRGS 900)	DFG;Y
Hungary	Local name	ETIL-ALKOHOL

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)		
Hungary	AK-érték	1900 mg/m ³
Hungary	CK-érték	7600 mg/m ³
Hungary	Megjegyzések (HU)	IV.
Ireland	OEL (15 min ref) (ppm)	1000 ppm
Latvia	Local name	Etilspirts (etanols)
Latvia	OEL TWA (mg/m ³)	1000 mg/m ³
Lithuania	IPRV (mg/m ³)	1000 mg/m ³
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m ³)	1900 mg/m ³
Lithuania	TPRV (ppm)	1000 ppm
Netherlands	Local name	Ethanol
Netherlands	Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	1900 mg/m ³
Netherlands	Remark (MAC)	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een Haanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Poland	Local name	Etanol (alkohol etylowy)
Poland	NDS (mg/m ³)	1900 mg/m ³
Portugal	Local name	Etanol (Álcool etílico)
Portugal	OEL STEL (ppm)	1000 ppm
Slovakia	Local name	Etylalkohol (etanol)
Slovakia	NPHV (priemerná) (mg/m ³)	960 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovakia	OEL STEL (mg/m ³)	1920 mg/m ³
Slovakia	OEL STEL (ppm)	1000 ppm
Slovenia	Local name	etanol (etilalkohol)
Slovenia	OEL TWA (mg/m ³)	1900 mg/m ³
Slovenia	OEL TWA (ppm)	1000 ppm
Slovenia	OEL STEL (mg/m ³)	7600 mg/m ³
Slovenia	OEL STEL (ppm)	4000 ppm
Slovenia	KTV factor SL	4
Spain	Local name	Etanol (Alcohol etílico)
Spain	VLA-ED (mg/m ³)	1910 mg/m ³
Spain	VLA-ED (ppm)	1000 ppm
Spain	VLA-EC (mg/m ³)	1910 mg/m ³
Spain	VLA-EC (ppm)	1000 ppm
Spain	Notes	s.
Sweden	Local name	Etanol
Sweden	nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	500 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	1000 ppm
Sweden	Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
United Kingdom	WEL TWA (mg/m ³)	1920 mg/m ³
United Kingdom	WEL TWA (ppm)	1000 ppm
Norway	Local name	Etanol

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)		
Norway	Grenseverdier (AN) (mg/m ³)	950 mg/m ³
Norway	Grenseverdier (AN) (ppm)	500 ppm
Switzerland	VME (mg/m ³)	960 mg/m ³
Switzerland	MAK (ppm)	500 ppm
Switzerland	KZGW (mg/m ³)	1920 mg/m ³
Switzerland	KZGW (ppm)	1000 ppm
Australia	TWA (mg/m ³)	1920 mg/m ³
Australia	TWA (ppm)	1000 ppm
Canada (Quebec)	VEMP (mg/m ³)	1880 mg/m ³
Canada (Quebec)	VEMP (ppm)	1000 ppm
USA - ACGIH	Local name	Ethanol
USA - ACGIH	ACGIH TWA (mg/m ³)	1884 mg/m ³
USA - ACGIH	ACGIH TWA (ppm)	1000 ppm
USA - ACGIH	ACGIH STEL (ppm)	1000 ppm
USA - ACGIH	Remark (ACGIH)	URT irr
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA - OSHA	Local name	Ethyl alcohol (Ethanol)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
ethyl lactate (97-64-3)		
Finland	HTP-arvo (8h) (mg/m ³)	25 mg/m ³
Finland	HTP-arvo (8h) (ppm)	5 ppm
Finland	HTP-arvo (15 min)	49 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	10 ppm
Lithuania	IPRV (mg/m ³)	25 mg/m ³
Lithuania	IPRV (ppm)	5 ppm
Lithuania	TPRV (mg/m ³)	50 mg/m ³
Lithuania	TPRV (ppm)	10 ppm
Lithuania	Remark (LT)	Ta pati RV, iðreikðta ppm, turi bûti taikoma laktatams, kuriø RV ðioje normoje nenustatyta.
Sweden	nivågränsvärde (NVG) (mg/m ³)	25 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	5 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	50 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	10 ppm
Sweden	Anmärkning (SE)	13
Ethyl acetate (141-78-6)		
EU	Local name	Ethyl acetate
Austria	MAK (mg/m ³)	1050 mg/m ³
Austria	MAK (ppm)	300 ppm
Austria	MAK Short time value (mg/m ³)	2100 mg/m ³ max. 8x5 min./Schicht (gemessen als Momentanwert)
Austria	MAK Short time value (ppm)	600 ppm max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium	Limit value (mg/m ³)	1461 mg/m ³
Belgium	Limit value (ppm)	400 ppm
Czech Republic	Local name	Ethylacetát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	700 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	194.6 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	900 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	250.2 ppm
Denmark	Local name	Ethylacetat (Eddikesyreethylester)

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)		
Denmark	Grænseværdie (langvarig) (mg/m ³)	540 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	1080 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	300 ppm
Finland	Local name	Etyyliasettaatti
Finland	HTP-arvo (8h) (mg/m ³)	1100 mg/m ³
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	1800 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	500 ppm
France	Local name	Acétate d'éthyle
France	VME (mg/m ³)	1400 mg/m ³
France	VME (ppm)	400 ppm
Germany	Local name	Ethylacetat
Hungary	Local name	ETIL-ACETÁT
Hungary	AK-érték	1400 mg/m ³
Hungary	CK-érték	1400 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Latvia	Local name	Etiķskābesetilesteris (etilacetāts)
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Lithuania	IPRV (mg/m ³)	500 mg/m ³
Lithuania	IPRV (ppm)	150 ppm
Lithuania	NRV (mg/m ³)	1100 mg/m ³
Lithuania	NRV (ppm)	300 ppm
Poland	Local name	Octan etylu
Poland	NDS (mg/m ³)	200 mg/m ³
Poland	NDSch (mg/m ³)	600 mg/m ³
Portugal	Local name	Acetato de etilo
Portugal	OEL TWA (ppm)	400 ppm
Slovakia	Local name	Etylacetát (octan etylový)
Slovakia	NPHV (priemerná) (mg/m ³)	500 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	150 ppm
Slovakia	OEL STEL (mg/m ³)	1100 mg/m ³
Slovakia	OEL STEL (ppm)	300 ppm
Slovenia	Local name	etilacetat
Slovenia	OEL TWA (mg/m ³)	1400 mg/m ³
Slovenia	OEL TWA (ppm)	400 ppm
Slovenia	OEL STEL (mg/m ³)	1400 mg/m ³
Slovenia	OEL STEL (ppm)	400 ppm
Spain	Local name	Acetato de etilo
Spain	VLA-ED (mg/m ³)	1460 mg/m ³
Spain	VLA-ED (ppm)	400 ppm
Sweden	Local name	Etylacetat
Sweden	nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
United Kingdom	WEL TWA (mg/m ³)	730 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)		
United Kingdom	WEL STEL (mg/m ³)	1460 mg/m ³
United Kingdom	WEL STEL (ppm)	400 ppm
Norway	Local name	Etylacetat
Norway	Grenseverdier (AN) (mg/m ³)	550 mg/m ³
Norway	Grenseverdier (AN) (ppm)	150 ppm
Switzerland	VME (mg/m ³)	1400 mg/m ³
Switzerland	MAK (ppm)	400 ppm
Switzerland	KZGW (mg/m ³)	2800 mg/m ³ max. 4x15 min./turno
Switzerland	KZGW (ppm)	800 ppm max. 4x15 min./turno
Australia	TWA (mg/m ³)	1460 mg/m ³
Australia	TWA (ppm)	400 ppm
Canada (Quebec)	VEMP (mg/m ³)	1440 mg/m ³
Canada (Quebec)	VEMP (ppm)	400 ppm
USA - ACGIH	Local name	Ethyl acetate
USA - ACGIH	ACGIH TWA (mg/m ³)	1440 mg/m ³
USA - ACGIH	ACGIH TWA (ppm)	400 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	1400 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA - OSHA	Local name	Ethyl acetate
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1400 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	400 ppm
Butyl acetate (123-86-4)		
EU	Local name	n-butyl acetate
Austria	MAK (mg/m ³)	480 mg/m ³
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m ³)	480 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	(gemessen als Momentanwert)
Czech Republic	Local name	Butylacetát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	950 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	200.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	1200 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	253 ppm
Denmark	Local name	n-Butylacetat
Denmark	Grænseværdie (langvarig) (mg/m ³)	710 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	1420 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	300 ppm
Finland	Local name	n-Butyliasetaatti
Finland	HTP-arvo (8h) (mg/m ³)	720 mg/m ³
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	200 ppm
France	Local name	Acétate de n-butyle
France	VME (mg/m ³)	710 mg/m ³
France	VME (ppm)	150 ppm
France	VLE (mg/m ³)	940 mg/m ³
France	VLE (ppm)	200 ppm
Germany	Local name	n-Butylacetat
Hungary	Local name	n-BUTIL-ACETÁT
Hungary	AK-érték	950 mg/m ³

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)		
Hungary	CK-érték	950 mg/m ³
Hungary	Megjegyzések (HU)	i, sz; l.
Latvia	Local name	Etiķskābesbutilesteris (n-butilacetāts)
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Lithuania	IPRV (mg/m ³)	500 mg/m ³
Lithuania	IPRV (ppm)	100 ppm
Lithuania	TPRV (mg/m ³)	700 mg/m ³
Lithuania	TPRV (ppm)	150 ppm
Poland	Local name	Octan butylu (n-butylu octan)
Poland	NDS (mg/m ³)	200 mg/m ³
Poland	NDSCh (mg/m ³)	950 mg/m ³
Portugal	Local name	Acetato de n-butilo
Portugal	OEL TWA (ppm)	150 ppm
Portugal	OEL STEL (ppm)	200 ppm
Slovakia	Local name	n-Butylacetát
Slovakia	NPHV (priemerná) (mg/m ³)	500 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	OEL STEL (mg/m ³)	700 mg/m ³
Slovakia	OEL STEL (ppm)	150 ppm
Slovenia	Local name	n-butylacetat
Slovenia	OEL TWA (mg/m ³)	480 mg/m ³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m ³)	480 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	Acetato de n-butilo
Spain	VLA-ED (mg/m ³)	724 mg/m ³
Spain	VLA-ED (ppm)	150 ppm
Spain	VLA-EC (mg/m ³)	965 mg/m ³
Spain	VLA-EC (ppm)	200 ppm
Sweden	Local name	n-Butylacetat
Sweden	nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	700 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	150 ppm
Norway	Grenseverdier (AN) (mg/m ³)	355 mg/m ³
Norway	Grenseverdier (AN) (ppm)	75 ppm
Canada (Quebec)	VECD (mg/m ³)	950 mg/m ³
Canada (Quebec)	VECD (ppm)	200 ppm
Canada (Quebec)	VEMP (mg/m ³)	713 mg/m ³
Canada (Quebec)	VEMP (ppm)	150 ppm
USA - ACGIH	Local name	n-Butyl acetate
USA - ACGIH	ACGIH TWA (mg/m ³)	713 mg/m ³
USA - ACGIH	ACGIH TWA (ppm)	150 ppm
USA - ACGIH	ACGIH STEL (mg/m ³)	950 mg/m ³
USA - ACGIH	ACGIH STEL (ppm)	200 ppm
USA - ACGIH	Remark (ACGIH)	Eye & URT irr
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	710 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	150 ppm
USA - NIOSH	NIOSH REL (STEL) (mg/m ³)	950 mg/m ³
USA - NIOSH	NIOSH REL (STEL) (ppm)	200 ppm

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)		
USA - OSHA	Local name	n-Butyl-acetate
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	710 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	150 ppm
2-methoxy-1-methylethyl acetate (108-65-6)		
Denmark	Grænseværdie (kortvarig) (mg/m ³)	550 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Finland	Huomautus (FI)	iho
France	Note (FR)	Peau
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	270 mg/m ³
Germany	TRGS 900 Limitation of exposure peaks (ppm)	50 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	275 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	(K)
Spain	VLA-ED (mg/m ³)	275 mg/m ³
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m ³)	550 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Spain	Notes	VLI
Sweden	Anmärkning (SE)	H
butan-2-ol;sec-butyl alcohol (78-92-2)		
Austria	MAK (mg/m ³)	150 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m ³)	600 mg/m ³ max. 4x15 min./Schicht
Austria	MAK Short time value (ppm)	200 ppm max. 4x15 min./Schicht
Belgium	Limit value (mg/m ³)	307 mg/m ³
Belgium	Limit value (ppm)	100 ppm
Czech Republic	Local name	Butanol (všechny isomery)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	300 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	99 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	600 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	198 ppm
Czech Republic	Remark (CZ)	I
Denmark	Local name	2-Butanol
Denmark	Grænseværdie (langvarig) (mg/m ³)	150 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); H (betyder, at stoffet kan optages gennem huden)
Finland	Local name	sek-Butanoli
Finland	HTP-arvo (8h) (mg/m ³)	150 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	230 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	75 ppm
Finland	Huomautus (FI)	iho
France	Local name	Alcool sec-butylique
France	VME (mg/m ³)	300 mg/m ³
France	VME (ppm)	100 ppm
France	Note (FR)	Valeurs recommandées/admises
Ireland	OEL (8 hours ref) (mg/m ³)	300 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (mg/m ³)	450 mg/m ³

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

butan-2-ol;sec-butyl alcohol (78-92-2)		
Ireland	OEL (15 min ref) (ppm)	150 ppm
Lithuania	IPRV (mg/m ³)	150 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	250 mg/m ³
Lithuania	TPRV (ppm)	75 ppm
Lithuania	Remark (LT)	O
Poland	Local name	Butan-2-ol (sec-butylowy alkohol)
Poland	NDS (mg/m ³)	300 mg/m ³
Poland	NDSCh (mg/m ³)	450 mg/m ³
Portugal	Local name	sec-Butanol (Álcool sec-butilico)
Portugal	OEL TWA (ppm)	100 ppm
Slovakia	Local name	sek-Butanol
Slovakia	NPHV (priemerná) (mg/m ³)	310 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovenia	Local name	butan-2-ol
Slovenia	OEL TWA (mg/m ³)	300 mg/m ³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m ³)	1200 mg/m ³
Slovenia	OEL STEL (ppm)	400 ppm
Spain	Local name	sec-Butanol (Alcohol sec-butilico)
Spain	VLA-ED (mg/m ³)	308 mg/m ³
Spain	VLA-ED (ppm)	100 ppm
Sweden	Local name	sek-Butanol
Sweden	nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	250 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	WEL TWA (mg/m ³)	308 mg/m ³
United Kingdom	WEL TWA (ppm)	100 ppm 70 ppm (butan 2-one/l In Urin, Post Shift)
United Kingdom	WEL STEL (mg/m ³)	462 mg/m ³
United Kingdom	WEL STEL (ppm)	150 ppm
Norway	Local name	Butan-2-ol
Norway	Grenseverdier (AN) (mg/m ³)	75 mg/m ³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Grenseverdier (Takverdi) (mg/m ³)	75 mg/m ³
Norway	Grenseverdier (Takverdi) (ppm)	25 ppm
Norway	Merknader (NO)	H
Switzerland	VME (mg/m ³)	300 mg/m ³
Switzerland	MAK (ppm)	100 ppm
Switzerland	KZGW (mg/m ³)	600 mg/m ³
Switzerland	KZGW (ppm)	200 ppm
Canada (Quebec)	VEMP (mg/m ³)	303 mg/m ³
Canada (Quebec)	VEMP (ppm)	100 ppm
USA - ACGIH	Local name	sec-Butanol
USA - ACGIH	ACGIH TWA (mg/m ³)	303 mg/m ³
USA - ACGIH	ACGIH TWA (ppm)	100 ppm
USA - ACGIH	Remark (ACGIH)	URT irr; CNS impair
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	305 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	100 ppm

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

butan-2-ol;sec-butyl alcohol (78-92-2)		
USA - NIOSH	NIOSH REL (STEL) (mg/m ³)	455 mg/m ³
USA - NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
USA - OSHA	Local name	sec-Butyl alcohol
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	450 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	150 ppm
Calcium silicon trioxide (wollastonite) (13983-17-0)		
Denmark	Grænseværdie (langvarig) (mg/m ³)	1 fibers/cm ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	0.5 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	10 mg/m ³ (poussière totale) 5 mg/m ³ (poussière respirable)
limestone (1317-65-3)		
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark (BE)	(carbonate de)
Hungary	AK-érték	10 mg/m ³
Hungary	Megjegyzések (HU)	inhalable aerosol
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	inhalable aerosol
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (total dust) 4 mg/m ³ (respirable dust)
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)
Canada (Quebec)	VEMP (mg/m ³)	10 mg/m ³
Canada (Quebec)	Notations and remarks	(la poussière totale), (poussière total, note1)
USA - ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
2-aminoethanol (141-43-5)		
EU	Local name	2-Aminoethanol
EU	IOELV TWA (mg/m ³)	2.5 mg/m ³
EU	IOELV TWA (ppm)	1 ppm
EU	IOELV STEL (mg/m ³)	7.6 mg/m ³
EU	IOELV STEL (ppm)	3 ppm
EU	Notes	Skin
Czech Republic	Local name	2-Aminoethan-1-ol
Czech Republic	Expoziční limity (PEL) (mg/m ³)	2.5 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	1.003 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	7.5 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	3.008 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	2-Aminoethanol (Ethanolamin)
Denmark	Grænseværdie (langvarig) (mg/m ³)	2.5 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	1 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	5 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	2 ppm
Denmark	Anmærkninger (DK)	H
Finland	Local name	2-Aminoetanoli
Finland	HTP-arvo (8h) (mg/m ³)	2.5 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1 ppm

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

2-aminoethanol (141-43-5)		
Finland	HTP-arvo (15 min)	7.6 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	3 ppm
Finland	Huomautus (FI)	iho
France	Local name	Ethanolamine (2-Aminoéthanol)
France	VME (mg/m ³)	2.5 mg/m ³
France	VME (ppm)	1 ppm
France	VLE (mg/m ³)	7.6 mg/m ³
France	VLE (ppm)	3 ppm
France	Note (FR)	Peau
Germany	Local name	2-Amino-ethanol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	5.1 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	2 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	10.2 mg/m ³
Germany	TRGS 900 Limitation of exposure peaks (ppm)	4 ppm
Germany	Remark (TRGS 900)	DFG,EU,H,Y,Sh,11
Hungary	Local name	2-AMINOETANOL
Hungary	AK-érték	2.5 mg/m ³
Hungary	CK-érték	7.6 mg/m ³
Hungary	Megjegyzések (HU)	b; EU2
Italy	Local name	2-Amminoetanolo
Italy	OEL TWA (mg/m ³)	2.5 mg/m ³
Italy	OEL TWA (ppm)	1 ppm
Italy	OEL STEL (mg/m ³)	7.6 mg/m ³
Italy	OEL STEL (ppm)	3 ppm
Latvia	Local name	2-Aminoetanols (monoetanolamīns)
Latvia	OEL TWA (mg/m ³)	0.5 mg/m ³
Latvia	OEL TWA (ppm)	0.2 ppm
Latvia	OEL STEL (mg/m ³)	7.6 mg/m ³
Latvia	OEL STEL (ppm)	3 ppm
Netherlands	Local name	2-Aminoethanol
Netherlands	Grenswaarde TGG 8H (mg/m ³)	2.5 mg/m ³
Netherlands	Grenswaarde TGG 8H (ppm)	1 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	7.6 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (ppm)	3 ppm
Netherlands	Remark (MAC)	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een Haanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Poland	Local name	2-Aminoetanol
Poland	NDS (mg/m ³)	2.5 mg/m ³
Poland	NDSch (mg/m ³)	7.5 mg/m ³
Portugal	Local name	Etanolamina (2-Aminoetanol)
Portugal	OEL TWA (ppm)	3 ppm
Portugal	OEL STEL (ppm)	6 ppm
Slovakia	Local name	2-Aminoetanol
Slovakia	NPHV (priemerná) (mg/m ³)	2.5 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	1 ppm
Slovakia	OEL STEL (mg/m ³)	7.6 mg/m ³
Slovakia	OEL STEL (ppm)	3 ppm

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

2-aminoethanol (141-43-5)		
Slovakia	Upozornenie (SK)	K
Slovenia	Local name	2-aminoetanol (etanolamin)
Slovenia	OEL TWA (mg/m ³)	2.5 mg/m ³
Slovenia	OEL TWA (ppm)	1 ppm
Slovenia	OEL STEL (mg/m ³)	7.5 mg/m ³
Slovenia	OEL STEL (ppm)	3 ppm
Spain	Local name	2-Aminoetanol (Etanolamina)
Spain	VLA-ED (mg/m ³)	2.5 mg/m ³
Spain	VLA-ED (ppm)	1 ppm
Spain	VLA-EC (mg/m ³)	7.5 mg/m ³
Spain	VLA-EC (ppm)	3 ppm
Spain	Notes	vía dérmica, VLI
Sweden	Local name	Etanolamin
Sweden	nivågränsvärde (NVG) (mg/m ³)	2.5 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	1 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	7.5 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	3 ppm
Sweden	Anmärkning (SE)	H
Norway	Local name	2-aminoetanol (Etanolamin)
Norway	Grenseverdier (AN) (mg/m ³)	2.5 mg/m ³
Norway	Grenseverdier (AN) (ppm)	1 ppm
Norway	Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); E (EU har en veiledende grenseverdi for stoffet)
Canada (Quebec)	VECD (mg/m ³)	15 mg/m ³
Canada (Quebec)	VECD (ppm)	6 ppm
Canada (Quebec)	VEMP (mg/m ³)	7.5 mg/m ³
Canada (Quebec)	VEMP (ppm)	3 ppm
USA - ACGIH	Local name	Ethanolamine
USA - ACGIH	ACGIH TWA (mg/m ³)	7.5 mg/m ³
USA - ACGIH	ACGIH TWA (ppm)	3 ppm
USA - ACGIH	ACGIH STEL (mg/m ³)	15 mg/m ³
USA - ACGIH	ACGIH STEL (ppm)	6 ppm
USA - ACGIH	Remark (ACGIH)	Eye & skin irr
USA - IDLH	US IDLH (ppm)	30 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	8 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	3 ppm
USA - NIOSH	NIOSH REL (STEL) (mg/m ³)	15 mg/m ³
USA - NIOSH	NIOSH REL (STEL) (ppm)	6 ppm
USA - OSHA	Local name	Ethanolamine
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	6 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	3 ppm
titanium dioxide (13463-67-7)		
EU	Local name	Titanium dioxide
Austria	MAK (mg/m ³)	5 mg/m ³ (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m ³)	10 mg/m ³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark (BE)	(dioxyde de)
Denmark	Local name	Titandioxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	6 mg/m ³
Denmark	Grænseværdie (kortvarig) (mg/m ³)	12 mg/m ³
France	Local name	Titane (dioxyde de), en Ti

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

titanium dioxide (13463-67-7)		
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	inhalable aerosol
Germany	Local name	Titandioxid
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Latvia	Local name	Tītānadioksīds
Latvia	OEL TWA (mg/m ³)	10 mg/m ³
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Portugal	Local name	Dióxido de titânio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Slovakia	Local name	Oxid titaničitý
Slovakia	NPHV (priemerná) (mg/m ³)	5 mg/m ³
Spain	Local name	Dióxido de titanio
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	inhalable aerosol
Sweden	Local name	Titandioxid
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³
Sweden	Anmärkning (SE)	total dust, 1
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
Norway	Local name	Titandioksid
Norway	Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)
Australia	TWA (mg/m ³)	4 mg/m ³ (respirable dust) 10 mg/m ³ (total inhalable dust)
Canada (Quebec)	VEMP (mg/m ³)	10 mg/m ³
Canada (Quebec)	Notations and remarks	(la poussière totale), (note1)
USA - ACGIH	Local name	Titanium dioxide
USA - ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³
USA - ACGIH	Remark (ACGIH)	LRT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
USA - OSHA	Local name	Titanium dioxide (Total dust)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³
barium sulfate (7727-43-7)		
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark (BE)	(sulfate de)
Germany	Local name	Bariumsulfat
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1.25 mg/m ³ A (mg/m ³) 10 mg/m ³ E (mg/m ³)
Germany	Remark (TRGS 900)	AGS,DFG
Ireland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Portugal	Local name	Sulfato de bário
Portugal	OEL TWA (mg/m ³)	5 mg/m ³ I (Fração inalável), E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina)
Slovakia	Local name	Síran (sulfát) báratý
Slovakia	NPHV (priemerná) (mg/m ³)	1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia)

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

barium sulfate (7727-43-7)		
Spain	Local name	Sulfato de bario
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	e
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
Canada (Quebec)	VEMP (mg/m ³)	10 mg/m ³ (la poussière totale) 5 mg/m ³ (la poussière respirable)
USA - ACGIH	Local name	Barium sulfate
USA - ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Kaolin (1332-58-7)		
Belgium	Limit value (mg/m ³)	2 mg/m ³
Belgium	Remark (BE)	(fraction alvéolaire)
Denmark	Local name	Kaolin
Denmark	Grænseværdie (langvarig) (mg/m ³)	2 mg/m ³
Denmark	Grænseværdie (kortvarig) (mg/m ³)	4 mg/m ³
Finland	Local name	Kaoliini
Finland	HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Finland	Huomautus (FI)	(alveolijae)
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	respirable aerosol
Ireland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Portugal	Local name	Caolino
Portugal	OEL TWA (mg/m ³)	2 mg/m ³ E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina), R (Fração respirável)
Spain	Local name	Caolín
Spain	VLA-ED (mg/m ³)	2 mg/m ³
Spain	Notes	d,e
United Kingdom	WEL TWA (mg/m ³)	2 mg/m ³
United Kingdom	Remark (WEL)	respirable aerosol
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)
Canada (Quebec)	VEMP (mg/m ³)	10 mg/m ³
Canada (Quebec)	Notations and remarks	(poussière total,note1)
USA - ACGIH	Local name	Kaolin
USA - ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)

8.2. Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

None under normal use

Environmental exposure controls:

Prevent leakage or spillage.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: A solid crayon-like marker.
Colour	: Variable.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	133.8 mg/l/4h

ethyl lactate (97-64-3)	
LD50 oral rat	> 4090 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5400 mg/m ³

Ethyl acetate (141-78-6)	
LD50 oral rat	5620 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	> 18 mg/l/4h

Butyl acetate (123-86-4)	
LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 14112 mg/kg
LC50 inhalation rat (mg/l)	> 21 mg/l/4h

2-methoxy-1-methylethyl acetate (108-65-6)	
LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	4345 ppm 6 h

butan-2-ol;sec-butyl alcohol (78-92-2)	
LD50 oral rat	2193 mg/kg

limestone (1317-65-3)	
LD50 oral rat	6450 mg/kg

2-aminoethanol (141-43-5)	
LD50 oral rat	1515 mg/kg
LD50 dermal rabbit	1822 (1822 - 3451) mg/kg
LC50 inhalation rat (mg/l)	> 1.3 mg/l

titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 6.82 mg/l/4h

barium sulfate (7727-43-7)	
LD50 oral rat	307 g/kg
LD50 dermal rat	> 2000 mg/kg

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 64.17% of the mixture consists of ingredient(s) of unknown acute oral toxicity
64.17% of the mixture consists of ingredient(s) of unknown acute dermal toxicity
64.17% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

titanium dioxide (13463-67-7)	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat

barium sulfate (7727-43-7)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	75 mg/kg bodyweight

Reproductive toxicity : Not classified

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

ethanol (64-17-5)	
LC50 fish 1	14200 mg/l
EC50 Daphnia 1	5012 mg/l
Ethyl acetate (141-78-6)	
LC50 fish 1	220 mg/l
EC50 Daphnia 1	1200 mg/l
NOEC chronic fish	< 9.35 mg/l
2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 fish 1	100 - 180 mg/l
EC50 Daphnia 1	> 500 mg/l 48 h
ErC50 (algae)	> 1000 mg/l
butan-2-ol;sec-butyl alcohol (78-92-2)	
LC50 fish 1	3380 - 3990 mg/l 96 h Pimephales promelas
EC50 Daphnia 1	1859 - 7143 mg/l 48 h
limestone (1317-65-3)	
LC50 fish 1	> 200 mg/l
Stearmide MEA (111-57-9)	
LC50 fish 1	31 mg/l 96 h read-across
2-aminoethanol (141-43-5)	
LC50 fish 1	165 mg/l 48 h
EC50 Daphnia 1	65 mg/l 48 h
barium sulfate (7727-43-7)	
LC50 fish 1	> 3.5 mg/l 96 h
EC50 Daphnia 1	14500 µg/l 48 h
Kaolin (1332-58-7)	
LC50 fish 1	> 1000 mg/l 96 h
EC50 Daphnia 1	> 1000 mg/l 48 h

Unknown hazards to the aquatic environment (CLP) : Contains 52.54 % of components with unknown hazards to the aquatic environment

12.2. Persistence and degradability

Nissen SOLID PAINT MARKER	
Persistence and degradability	May cause long-term adverse effects in the environment.
ethanol (64-17-5)	
Biodegradation	> 96 % 28 d
ethyl lactate (97-64-3)	
Persistence and degradability	Readily biodegradable.
Ethyl acetate (141-78-6)	
Persistence and degradability	Readily biodegradable.
2-methoxy-1-methylethyl acetate (108-65-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d
limestone (1317-65-3)	
Persistence and degradability	Not readily biodegradable.

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Stearmide MEA (111-57-9)	
Biodegradation	69 % 28 d
2-aminoethanol (141-43-5)	
Persistence and degradability	Readily biodegradable.
Kaolin (1332-58-7)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Nissen SOLID PAINT MARKER	
Bioaccumulative potential	Not established.
ethanol (64-17-5)	
Bioaccumulative potential	Not expected to bioaccumulate.
Ethyl acetate (141-78-6)	
Bioaccumulative potential	Not expected to bioaccumulate.
2-methoxy-1-methylethyl acetate (108-65-6)	
Log Pow	0.43
limestone (1317-65-3)	
Bioaccumulative potential	Does not bioaccumulate significantly.
Stearmide MEA (111-57-9)	
Log Pow	> 4.46
2-aminoethanol (141-43-5)	
Log Pow	-1.31
barium sulfate (7727-43-7)	
BCF fish 1	68.4 L/kg

12.4. Mobility in soil

Nissen SOLID PAINT MARKER	
Ecology - soil	Not established.

12.5. Results of PBT and vPvB assessment

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PBT: not yet assessed	
vPvB: not yet assessed	
Component	
Ethyl acetate (141-78-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.
European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not regulated.
UN-No. (IMDG) : Not regulated.
UN-No. (IATA) : Not regulated.
UN-No. (ADN) : Not regulated.
UN-No. (RID) : Not regulated.

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated.
Proper Shipping Name (IMDG) : Not regulated.

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Proper Shipping Name (IATA) : Not regulated.
Proper Shipping Name (ADN) : Not regulated.
Proper Shipping Name (RID) : Not regulated.

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated.

IMDG

Transport hazard class(es) (IMDG) : Not regulated.

IATA

Transport hazard class(es) (IATA) : Not regulated.

ADN

Transport hazard class(es) (ADN) : Not regulated.

RID

Transport hazard class(es) (RID) : Not regulated.

14.4. Packing group

Packing group (ADR) : Not regulated.
Packing group (IMDG) : Not regulated.
Packing group (IATA) : Not regulated.
Packing group (ADN) : Not regulated.
Packing group (RID) : Not regulated.

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Not regulated.

- Transport by sea

Not regulated.

- Air transport

Not regulated.

- Inland waterway transport

Not regulated.

- Rail transport

Not regulated.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).
All ingredients are listed in the Domestic Substances List (DSL).

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : ethanol, Methyl ester, soybean oil, Kaolin are listed

SZW-lijst van mutagene stoffen : Methyl ester, soybean oil, Kaolin are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : ethanol is listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

1.1	Added	Additional trade names
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Abbreviations and acronyms:

ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
CLP: Classification, Labelling, Packaging.
EC50: Environmental Concentration associated with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
LD50: Lethal Dose for 50% of the test population
OSHA: Occupational Safety & Health Administration
PBT: Persistent, Bioaccumulative, Toxic
TWA: Time Weighted Average
TSCA: Toxic Substances Control Act

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>.
European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/quest/information-on-chemicals/cl-inventory-database>.
Kristen Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2

Nissen SOLID PAINT MARKER

Safety Data Sheet

according to Regulation (EU) 2015/830

Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product