



Safety Data Sheet

DynaProof Tamper Detection Marker - Orange

Section 1. Identification

Product Identifier DynaProof Tamper Detection Marker - Orange

Synonyms 45401

Manufacturer Stock Numbers 146823

Recommended use Refer to Technical Information

Uses advised against Refer to Technical Information

Manufacturer Contact

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Section 2. Hazards Identification

Classification CARCINOGENICITY - Category 1B
FLAMMABLE LIQUIDS - Category 2
GERM CELL MUTAGENICITY - Category 1B
SENSITIZATION - SKIN - Category 1
SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2A
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word Danger

Pictogram



Hazard Statements

Causes serious eye irritation
Highly flammable liquid and vapor
May cause an allergic skin reaction
May cause cancer
May cause drowsiness or dizziness
May cause genetic defects

Precautionary Statements

Response

Call a poison center/doctor if you feel unwell.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label)
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Do not handle until all safety precautions have been read and understood.
Ground/bond container and receiving equipment.
Keep away from heat.
Keep container tightly closed.
Obtain special instructions before use.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.
Wear protective gloves/eye protection/face protection
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national /international regulations.

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

Additional Information None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67-63-0	Isopropanol	20% - 29%
616-38-6	dimethyl carbonate	20% - 29%
	Acrylic polymer	20% - 29%
1332-58-7	Kaolin	20% - 29%
67762-90-7	Fumed silica	1% - 4%
	Pigment	<= 1 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Description of first aid measures

After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.

After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:
If symptoms persist consult doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed:
No further relevant information available

Indication of any immediate medical attention and special treatment needed:
No further relevant information available

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Carbon dioxide, sand, extinguishing powder. Do not use water.

Unsuitable Extinguishing Media

Water with full jet.

Special hazards arising from the substance or mixture

No further relevant information available

Advice for firefighters

Wear self-contained respiratory protective device.
Wear fully protective suit.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Wear protective clothing.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section 7. Handling and Storage

Handling

Precautions for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

Storage

Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

Requirements to be met by storerooms and receptacles:
Store in a cool location.

Information about storage in one common storage facility:
Not required.

Further information about storage conditions:
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

Specific end use(s)

No further relevant information available.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Isopropanol	400 ppm	400 ppm	500 ppm
dimethyl carbonate	N/A	N/A	N/A
Acrylic polymer	N/A	N/A	N/A
Kaolin	2 mg/m ³	10 m/m ³	N/A
Fumed silica	N/A	N/A	N/A
Pigment	N/A	N/A	N/A

Personal Protective Equipment

N/A

Components with limit values that require monitoring at the workplace

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

1332-58-7 Kaolin

PEL Long-term value: 15* 5** mg/m³

*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³

*total dust **respirable fraction

TLV Long-term value: 2* mg/m³

E; as respirable fraction

67-63-0 isopropanol

PEL Long-term value: 980 mg/m³, 400 ppm

REL Short-term value: 1225 mg/m³, 500 ppm

Long-term value: 980 mg/m³, 400 ppm

TLV Short-term value: 984 mg/m³, 400 ppm

Long-term value: 492 mg/m³, 200 ppm

BEI

Ingredients with biological limit values:

67-63-0 isopropanol

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

Additional information: The lists that were valid during the creation were used as basis.

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is

independent of circulating air.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Orange
Odor	Alcohol-like
Odor Threshold	Not determined
Solubility	Not miscible
Partition coefficient Water/n-octanol	Not determined
VOC%	21.34
Viscosity	Not determined
Specific Gravity	1.32491
Density lbs/Gal	11.05637
Pounds per Cubic Foot	N/A
Flash Point	13C 55.4F
FP Method	N/A
pH	Not determined
Melting Point	Undetermined
Boiling Point	$\geq 82\text{C}$ ($\geq 179.6\text{F}$)

Boiling Range	N/A
LEL	2
UEL	12
Evaporation Rate	Not determined
Flammability	Not applicable
Decomposition Temperature	Not determined
Auto-ignition Temperature	Not selfigniting
Vapor Pressure	<= 56 hPa
Vapor Density	Not determined

Note The above information is not intended for use in preparing product specifications. Contact Soudal before writing specifications.

Section 10. Stability and Reactivity

Reactivity	No further relevant information available.
Thermal decomposition / conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.

Section 11. Toxicological Information

LD/LC50 values that are relevant for classification	ATE (Acute Toxicity Estimate) Inhalative LC50/4 h 140 mg/l (rat)
	616-38-6 dimethyl carbonate Oral LD50 13,000 mg/kg (rat) Dermal LD50 > 5,000 mg/kg (rabbit)
	67-63-0 isopropanol Oral LD50 5,045 mg/kg (rat) Dermal LD50 12,800 mg/kg (rabbit) Inhalative LC50/4 h 30 mg/l (rat)
Information on toxicological effects	Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect.
	Sensitization: Sensitization possible through skin contact.

Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic.

The product can cause inheritable damage.

Carcinogenic categories

IARC (International Agency for Research on Cancer)
67-63-0 isopropanol 3

NTP (National Toxicology Program)
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

Section 12. Ecological Information

Aquatic toxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information	Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	PBT: Not applicable. vPvB: Not applicable.
Other adverse effects	No further relevant information available.

Section 13. Disposal

Waste treatment methods Recommendation	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Uncleaned packagings	Disposal must be made according to official regulations.

Section 14. Transport Information

UN Number	1139
UN Proper Shipping Name	Coating solution
DOT Classification	Hazard Class: 3 Flammable liquids
Packing Group	II

Section 15. Regulatory Information

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

67-63-0 isopropanol

TSCA (Toxic Substances
Control Act)

Acrylic polymer

Kaolin

dimethyl carbonate

isopropanol

Amorphous Silica

Pigment

2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)

Hazardous Air Pollutants
California Prop 65

None of the ingredients is listed.

Chemicals known to cause cancer:

Pigment

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Section 16. Other Information

Revision Date

2/12/2020

Disclaimer

The data contained herein is based upon information that Soudal believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.