

Safety Data Sheet

DynaProof Tamper Detection Marker - Yellow

Section 1. Identification

Product Identifier	DynaProof Tamper Detection Marker - Yellow		
Synonyms	45400		
Manufacturer Stock Numbers	146824		
Recommended use	Refer to Technical Information		
Uses advised against	Refer to Technical Information		
Manufacturer Contact			
Address	Dynatex <i>a division of</i> Soudal 350 Ring Road Elizabethtown, KY, 42701 USA		
	Phone	Emergency Phone	Fax
	(270) 769-3385	(800) 424-9300 CHEMTREC	(270) 769-6418

Section 2. Hazards Identification

Classification	FLAMMABLE LIQUIDS - Category 2 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 drowsiness or dizziness

Precautionary Statements

Response

Call a poison center/doctor if you feel unwell.
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.
In case of fire: Use for extinction: CO2, powder or water spray.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Ground/bond container and receiving equipment.
Keep away from heat.
Keep container tightly closed.
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 face, hands and any exposed skin thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves/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%

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; consult doctor in case of complaints. After skin contact: Generally the product does not irritate the skin. 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	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.
 Prevent formation of aerosols.

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

Storage 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

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.
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	N/A
Color	N/A
Odor	N/A

Odor Threshold	N/A
Solubility	N/A
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	N/A
FP Method	N/A
pH	N/A
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	2.6
UEL	13
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	N/A
Vapor Density	N/A

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:
No sensitizing effects known.

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

Irritant

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

Section 15. Regulatory Information

SARA Section 355 (extremely hazardous substances):
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

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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.