



MATERIAL SAFETY DATA SHEET:
TOUCH-UP MARKER for steel roofing 15 ml
Prepared in accordance with Commission Regulation (EU) No. 453/2010

Touch-up marker

Date of issue: 1 June 2015

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: TOUCH-UP MARKER for steel roofing 15 ml

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

Identified uses: Solvent-based paint for the protection of steel surfaces. Uses advised against: no specific uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

MANUFACTURER:

Rolling Steels Sp. z o.o.

Pawężów 104A, 33-103 Tarnów

Tel.: +48 14 625 02 73; Fax: +48 14 657 60 20

Person responsible for the preparation of the MSDS: rollingsteels.pl@gmail.com

1.4 Emergency telephone number

In Poland: 112 (emergency telephone number), 998 (fire brigade), 999 (emergency care)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The preparation has been classified as hazardous according to Minister of Health Regulation of 2 September 2003.

Type of hazard:

- **Fire hazard:** Flammable liquid
- **Human health hazard:** Irritating to skin. May cause respiratory irritation. May cause drowsiness and dizziness.
- **environmental hazard:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Hazard pictograms: None

2.3 Other hazards

No information.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances — not applicable

3.2 Mixtures — a mixture of organic compounds

Hazardous ingredients:

| Chemical name | % wt. | CAS No. | EC No. |
|--|--------|------------|-----------|
| Xylene; dimethylbenzene — a mixture of isomers | 25-50 | 1330-20-7 | 215-535-7 |
| Ethylbenzene | 2.5-10 | 100-41-4 | 202-849-4 |
| Solvent naphtha (petroleum), light aromatic hydrocarbons | 2.5-10 | 64742-95-6 | 265-199-0 |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Respiratory system: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contamination: Remove/take off all contaminated clothing immediately. Rinse skin with water or shower.

Malaise: Provide fresh air. Contact a poison centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Not applicable.

4.3 Indication of any immediate medical attention and special treatment needed

If needed, provide immediate medical care.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Use: Extinguishing foam (alcohol resistant), carbon dioxide (CO₂), extinguishing powder, water spray.

Do not use: Solid water stream.

WARNING: If exposed to fire or high temperature, cool containers with water and, where possible, remove from the danger zone.

5.2 Special hazards arising from the substance or mixture

Flammable mixture. Under favourable temperature conditions, some components of the product form an explosive mixture when mixed with air. As a result of elevated temperatures, containers may be subject to sudden loss of containment, with the separation of combustible and toxic gases and aerosols.

5.3 Advice for firefighters

Wear full protective equipment. Use self-contained breathing apparatus with full face mask and positive pressure ventilation. Clothing for firefighters (including helmets, protective boots and gloves) provides basic protection for chemical incidents.

Additional remarks: Heating of the product may produce explosive mixtures. Use absorbent materials to collect spillage. Protect the sewer system, surface water and ground against contamination.



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**SECTION 6: ACCIDENTAL RELEASE
MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapour or mist. Provide adequate ventilation. Personnel, who does not take part in the rescue operation, should not be given permission to enter the area (unless properly trained).

6.2 Environmental precautions

Secure drains. In case of serious pollution of any element of the environment, notify the appropriate administrative and control authorities, as well as rescue organisations. Deliver packaging waste to authorised processing companies.

6.3 Methods and materials for containment and cleaning up

Remove all potential ignition sources, secure any damaged containers, create dams in the way of the moving preparation. Repackage the liquid collected from the environment for later disposal. Use neutral absorbent materials (earth, dry sand, diatomite, vermiculite). Do not use solvents. Use detergents for cleaning.

Methods of disposal: Burn after unloading packages in a suitable facility of an authorised company — as required for hazardous materials.

6.4 References to other sections

For information about appropriate personal protective equipment: refer to section 8. For information about additional waste treatment: refer to section 13.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND THEIR MIXTURES

7.1 Precautions for safe handling

Do not eat, drink, smoke or take medication during all and any operations carried out with the product. Avoid direct contact with the product, avoid inhalation of vapours and aerosols. Observe good personal hygiene, use protective clothing and personal protective equipment. After using, always wash hands thoroughly with soap and water. Keep away from children.

7.2 Conditions for safe storage, including any incompatibilities

Storage rooms must be dry, adapted for the storage of flammable products and efficiently ventilated (due to the possibility of producing explosive mixtures when mixed with air). Electrical installations must meet explosion proof requirements. Use only tools that do not cause sparking. Prevent the formation of static electricity. The substrate must be made of impermeable material, preferably ceramic. Store the product in tightly sealed original containers. Protect from frost, direct sunlight and sources of heat. Do not store with acids, alkalis and oxidising agents. Handle open containers very carefully to avoid spillage.

Read the entire contents of the material safety data sheet.

7.3 Specific end use(s): No information.



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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Polish occupational exposure limits (mg/m³) applicable in the workplace:

| CAS No. | Ingredient | Occupational exposure limit (mg/m ³) | Short-term exposure limit (mg/m ³) |
|------------|--|--|--|
| 1330-20-7 | Dimethylbenzene — a mixture of isomers | 100 | 350 |
| 100-41-4 | Ethylbenzene | 100 | 350 |
| 64742-95-6 | Solvent naphtha (petroleum), light aromatic hydrocarbons | 100 (kerosene) | 300 (kerosene) |

Safety standards:

BS EN 141:2002 - Respiratory protective devices. Self-contained closed-circuit breathing apparatus for escape. Requirements, testing, marking.

BS-EN 344:1996 - Requirements and test methods for safety, protective and occupational footwear for professional use. Amendment A1.

BS EN 166:2002 (U) - Personal eye protection. Requirements.

BS-EN 374-3:2004 (U) - Protective gloves against chemicals and micro-organisms. Determination of resistance to permeation by chemicals.

BS EN 466:1998 - Protective clothing. Protection against liquid chemicals. Performance requirements for chemical protective clothing with liquid-tight connections (type 3).

8.2 Exposure controls in the workplace:

- Water intake with an industrial shower and eye washer
- Personal protection equipment adjusted to the working environment conditions by an OHS officer or occupational medicine physician
- Do not eat, drink or smoke during work

8.2.1 Appropriate engineering controls:

Provide adequate ventilation and personal protection measures when working with the mixture.

8.2.2 Individual protection measures, such as personal protective equipment:

- Respiratory protection: if good ventilation is not required
- Hand protection: wear protective gloves
- Eye protection: wear protective goggles
- Skin protection: wear working clothes; the choice of additional protection measures, such as apron, boots, etc., depends on the extent of exposure and type of operations

8.2.3 Environmental exposure controls:

Avoid penetration of large amounts of the mixture into reservoirs, waterways, drains and sewage.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Ingredients: | A mixture of organic compounds and auxiliary substances. |
| Physical form, colour, odour: | Under normal conditions: Liquid with a characteristic odour of organic solvents. Colour: In accordance with the specification. |
| The pH of the undiluted preparation: | Not applicable. |
| Density: | 1.1 g/ml at 20°C |
| Scope of formation of explosive mixtures when mixed with air: | 1.1-7% of volume (xylene) |
| Softening point: | Not applicable. |
| Boiling point: | Not applicable. |
| Flash point: | 25°C (closed-cup method) |
| Solubility in water: | Not soluble in cold water |

9.2. Other information: No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity and chemical stability

Under normal conditions, the product is chemically stable. Avoid contact with heat sources, open flame, strong oxidising agents, strong acids and strong bases due to the possibility of exothermic reaction.

10.2 Possibility of hazardous reactions: No information

10.3 Conditions to avoid: No information.

10.4 Incompatible materials: No information.

10.5 Hazardous decomposition products

Dangerous decomposition products are formed at high temperatures and contain, among others, carbon monoxide and dioxide, and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Routes of exposure: Inhalation, ingestion, contact with skin, contact with eyes.

Information on acute toxicity: No toxicological data available for the product.

Local effect:

Inhalation: Inhalation of vapours of the product causes a number of consequences, including mucous membrane irritation. Symptoms include shortness of breath with coughing, headache, dizziness, muscle pain, weakness, fatigue and drowsiness. In extreme cases, unconsciousness may occur.

Ingestion: Symptoms include irritation of mucous membranes of the digestive tract, nausea, vomiting, diarrhoea and nervous system problems. Chemical pneumonia may occur as a consequence of aspiration.

Contact with skin: Some product ingredients can easily penetrate the skin. Symptoms may include irritation, redness and dryness of the skin (defatting).



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Contact with eyes: Contact with liquid or vapours may cause irritation, burning, redness and tearing.

Health effects of chronic exposure: Persons who are chronically exposed to breathing air contaminated by the product ingredients, may experience mucous membrane irritation, headaches and dizziness, excitement or drowsiness, digestive system problems, nervous system problems, dryness and inflammation of the skin, and liver and kidney dysfunction.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Information on toxicological effects

Some product ingredients are stable in the environment and hardly biodegradable. The product is harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Toxicological data of individual ingredients posing a threat:

Dimethylbenzene (a mixture of isomers):

LC50 (Orconhynchus mykiss) = 3.3 mg/l/96 hours

LC50 (Orconhynchus mykiss) = 8.2 mg/l/96 hours

LC50 (Lepomis macrochirus) = 8.6 mg/l/96 hours

LC50 (Lepomis macrochirus) = 13.3 mg/l/96 hours

LC50 (Pimephales prometas) = 13.4 mg/l/96 hours

LC50 (Lepomis macrochirus) = 230 mg/l/48 hours

Solvent naphtha (petroleum), light aromatic hydrocarbons:

LC50 (Orconhynchus mykiss) > 0.0109 mg/l/96 hours

LC50 (Orconhynchus mykiss) = 0.06 mg/l/96 hours

LC50 (Lepomis macrochirus) > 0.1 mg/l/96 hours

LC50 (Orconhynchus mykiss) > 0.1 mg/l/96 hours

LC50 (Lepomis macrochirus) > 10 mg/l/96 hours

LC50 (Lepomis macrochirus) > 10.7 mg/l/96 hours

Ethylbenzene:

EC50 (Daphnia magna) = 2.93 mg/l/48 hours

EC50 (Daphnia magna) = 2.97 mg/l/48 hours

EC50 (Selenastrum caprocomutum) = 7.2 mg/l/48 hours

LC50 (Orconhynchus mykiss) = 4.2 mg/l/96 hours

LC50 (Pimephales prometas) = 9.09 mg/l/96 hours

solvent naphtha (petroleum), light aromatic hydrocarbons:

LC50 (fish) < 10 mg/l/96 hours

EC50 (Daphnia) < 10 mg/l/48 hours

IC50 (fish) < 10 mg/l/72 hours

Biodegradability class: Not determined.

Water hazard class: Extreme

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal methods:

In accordance with the Act of 27 April 2001 on waste (Journal of Laws No. 62, item 628) and Regulation of the Minister of Environment of 27 September 2001 on waste catalogue (Journal of Laws No. 112, item 1206).



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Package contents by:

Type: 08 01 11 — waste paint and varnish containing organic solvents or other dangerous substances.

Method of disposal: D10 — incinerated at waste incineration plants or equipment located on the land.

Packaging by:

Type: 15 01 02 — plastic packaging, 15 01 04 — metal packaging

Do not introduce into the environment. Use appropriate containment to avoid environmental contamination.

Dispose of the product and packaging as hazardous waste.

SECTION 14: TRANSPORT INFORMATION

| | |
|---|------------|
| 14.1 UN number: | 1263 |
| A. Road and rail transport (ADR/RID) | |
| 14.2 UN 1263 PAINT | |
| 14.3 Class: | 3 |
| 14.4 Packing group: | III |
| Classification code: | F1 |
| Hazard identification number: | 30 |

SECTION 15: REGULATORY INFORMATION

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

- COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 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
- DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations
- Act on chemical substances and their mixtures of 25 February 2011 (Journal of Laws of 2011, No. 63, item 322)
- Regulation of the Minister of Health of 20 April 2012 on the labelling of chemical substances and mixtures and certain mixtures (Journal of Laws of 2012, No. 0, item 445)
- Regulation of the Minister of Health of 10 August 2012 on the criteria and classification of chemical substances and their mixtures (Journal of Laws of 2012, No. 0, item 1018)
- REGULATION OF THE MINISTER OF LABOUR AND SOCIAL POLICY of 29 November 2002 on the maximum permissible concentration and intensity of harmful factors in the work environment (Journal of Laws No. 217, item 1833, as amended, Journal of Laws No. 212, item 1769 of 2005, Journal of Laws No. 161, item 1142 of 2007, Journal of Laws No. 105, item 873 of 2009)
- Regulation of the Minister of Economy of 29 March 2012 (Journal of Laws of 2012, item 510) amending



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Annex to the Regulation on detailed requirements relating to the limitation of volatile organic compounds resulting from the use of organic solvents in certain paints and varnishes and vehicle refinishing mixtures (Journal of Laws of 2007, No. 11, item 72, as amended, Journal of Laws of 2011, No. 94, item 555)

- REGULATION OF THE MINISTER OF LABOUR AND SOCIAL POLICY of 26 September 1997 on general safety and health at work (Journal of Laws of 1997, No. 129, item 844), as amended (Journal of Laws of 2003, No. 169, item 1650, Journal of Laws of 2007, No. 49, item 330, Journal of Laws of 2008, No. 108, item 690)
- Act on waste (Journal of Laws of 2010, No. 185, item 1243 — consolidated text of the Act on waste, Journal of Laws of 2011, No. 138, item 809)
- ACT of 11 May 2011 on packaging and packaging waste (Journal of Laws of 2001, No. 63, item 638, as amended, Journal of Laws of 2004, No. 11, item 97)
- REGULATION OF THE MINISTER OF ENVIRONMENT of 27 September 2001 on waste catalogue (Journal of Laws of 2001, No. 112, item 1206)

15.2 Chemical safety assessment: Not applicable.

SECTION 16: OTHER INFORMATION

Chemical designation of the preparation: A mixture of organic compounds and auxiliary substances.

Hazard statements:

- H226: Flammable liquid and vapour.
- H315: Irritating to skin.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness and dizziness.

Precautionary statements:

- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing.

Warning:

- You are fully responsible for taking all steps to meet the requirements of national law. The information contained in this safety data sheet describes the safety requirements for the use of the preparation. You are solely responsible for determining the suitability of the product for a particular purpose. The data contained in this safety data sheet do not constitute a safety assessment of your workplace. This safety data sheet can not be treated as a guarantee of the properties of the product.
- The product may not be used without written permission for any purpose other than those specified in section 1 of this safety data sheet.
- This safety data sheet is directly provided to the distributor of the product, with no assurances or guarantees of completeness or level of detail of all the information or recommendations contained herein.