

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

1.1. Product identifier

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|--|---------------|
| Trade name or designation of the mixture | Tgard K52 |
| Registration number | - |
| Synonyms | None. |
| Issue date | 25-April-2016 |
| Version number | 01 |
| Revision date | - |
| Supersedes date | - |

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

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|----------------------|-----------------|
| Identified uses | Industrial use. |
| Uses advised against | None known. |

1.3. Details of the supplier of the safety data sheet

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|------------------|---|
| Manufacturer | Laird |
| Address | 4707 Detroit Ave Cleveland, Ohio 44102 USA |
| Telephone number | +1-216-939-2300 |
| Email | clv-customerservice@lairdtech.com |

| | |
|------------------|---|
| Manufacturer | Laird |
| Address | C3&C4 Building, HongTai Industry Park, NO.87 Tai Feng Road, TEDA, Tianjin, China |
| Telephone number | +86(0)22-66298160 |

| | |
|------------------|---|
| Corporate Office | Laird PLC |
| Address | 100 Pall Mall, London, SW1Y 5NQ United Kingdom |
| Telephone number | +44 (0)20 7468 4040 |

| | |
|---------------------------------|--|
| 1.4. Emergency telephone number | Within USA and Canada: 1-800-424-9300 (Chemtrec). Other Countries: +1-703-527-3887. |
| Telephone hours | 24 hours per day, 7 days per week. Collect calls accepted. |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

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| Hazard summary | Health injuries are not known or expected under normal use. |
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2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

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|-------------------|-------|
| Hazard pictograms | None. |
| Signal word | None. |
| Hazard statements | None. |

Precautionary statements

| | |
|------------|--|
| Prevention | Observe good industrial hygiene practices. |
| Response | Wash hands after handling. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |

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|--------------------------------|-------|
| Supplemental label information | None. |
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| 2.3. Other hazards | None known. |
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

SECTION 4: First aid measures

General information First aid personnel must be aware of own risk during rescue.

4.1. Description of first aid measures

Inhalation Not relevant, due to the form of the product.

Skin contact Not relevant, due to the form of the product.

Eye contact Not relevant, due to the form of the product.

Ingestion Not relevant, due to the form of the product.

4.2. Most important symptoms and effects, both acute and delayed Not relevant, due to the form of the product.

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

SECTION 5: Firefighting measures

General fire hazards Will burn if involved in a fire.

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media None.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away.

For emergency responders Keep unnecessary personnel away. For personal protection, see Section 8 of the SDS.

6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Sweep up or gather material and place in appropriate container for disposal.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store in closed original container in a dry place.

7.3. Specific end use(s) Industrial use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Used as intended, this product is not expected to generate potentially hazardous quantities of dust or fumes.
In an industrial work environment no special precautions or control measures are required.

Individual protection measures, such as personal protective equipment

General information No special protective equipment required.

Eye/face protection Not normally needed.

Skin protection

- **Hand protection** Not normally needed.

- **Other** No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory protection Not normally needed.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Wash hands after contact.

Environmental exposure controls Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.

Form Sheet.

Colour White.

Odour None. \ Mild.

Odour threshold Unknown.

pH Not applicable.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not applicable.

Flash point Not applicable.

Evaporation rate Negligible.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not applicable.

Flammability limit - upper (%) Not applicable.

Vapour pressure Negligible.

Vapour density Negligible.

Relative density 1,87

Solubility(ies) Negligible.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not applicable.

Decomposition temperature Not available.

Viscosity Not applicable.

Explosive properties Not available.

Oxidising properties Not available.

9.2. Other information

Bulk density 1,87 g/cc at 25 °C

VOC (Weight %) < 1 %

SECTION 10: Stability and reactivity

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| 10.1. Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability | Material is stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| 10.4. Conditions to avoid | Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. |
| 10.5. Incompatible materials | Strong oxidising agents. |
| 10.6. Hazardous decomposition products | Carbon oxides. Metal oxides. |

SECTION 11: Toxicological information

General information Under normal conditions of intended use, this material does not pose a risk to health.

Information on likely routes of exposure

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|---------------------|---|
| Inhalation | Not likely, due to the form of the product. |
| Skin contact | No adverse effects due to skin contact. |
| Eye contact | No adverse effects due to eye contact are expected. |
| Ingestion | No harmful effects expected in amounts likely to be ingested by accident. |

Symptoms Not relevant, due to the form of the product.

11.1. Information on toxicological effects

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|--|---|
| Acute toxicity | No adverse effects are expected. |
| Skin corrosion/irritation | Not classified. |
| Serious eye damage/eye irritation | Not classified. |
| Respiratory sensitisation | Not classified. |
| Skin sensitisation | Not classified. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not classified. This product is an article. |

IARC Monographs. Overall Evaluation of Carcinogenicity

Vinyl acetate (CAS 108-05-4) 2B Possibly carcinogenic to humans.

| | |
|---|---|
| Reproductive toxicity | Not classified. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not relevant, due to the form of the product. |
| Mixture versus substance information | No data available. |
| Other information | None known. |

SECTION 12: Ecological information

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| 12.1. Toxicity | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| 12.2. Persistence and degradability | No data available. |
| 12.3. Bioaccumulative potential | No data available. |
| Partition coefficient n-octanol/water (log Kow) | Not available. |
| Bioconcentration factor (BCF) | Not available. |
| 12.4. Mobility in soil | The product is insoluble in water and will sediment in water systems. |
| 12.5. Results of PBT and vPvB assessment | Not a PBT or vPvB substance or mixture. |
| 12.6. Other adverse effects | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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| Residual waste | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| EU waste code | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Disposal methods/information | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. |
| Special precautions | Dispose in accordance with all applicable regulations. |

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk Not applicable.

according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Vinyl acetate (CAS 108-05-4)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Vinyl acetate (CAS 108-05-4)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Vinyl acetate (CAS 108-05-4)

Zinc oxide (CAS 1314-13-2)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Vinyl acetate (CAS 108-05-4)

Directive 94/33/EC on the protection of young people at work, as amended

Vinyl acetate (CAS 108-05-4)

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15 None.

Training information Follow training instructions when handling this material.

Disclaimer Laird cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.