Material Safety Data Sheet | Bird Spike Fixing Adhesive

Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16. This Safety Data Sheet is prepared voluntarily: it is not required according to Article 31 of Regulation REACH EB No. 1907/2006.

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

1.1 Product identifier Product Name: MS POLYMERIZED SEALANT Product code: MS/MS15/MS25/MS35/MS Crystal.

1.2 Relevant identified uses of the substance or mixture and uses advised against Material uses : Sealants and adhesives Uses advised against No specific uses advised against are identified Revision Date: 16/01/2023 Supersedes: 31/12/2023.

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS NO	WT%
MS Resin	216597-12-5	40
Plasticizer	64787-97-9	15
Filler	7631-86-9	40
A Silane Coupling Agent	1760-24-3	3
Organotin Catalyst	77-58-7	2

SECTION 3: HAZARDS IDENTIFICATION

3.1 Classification of the substance or mixture

Product definition : Mixture

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

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

3.2 Other hazards: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification: None known.

HEALTH EFFECTS

Acute – Swallowed : May cause irritation of the gastrointestinal system. Symptoms may include nausea, vomiting and diarrhoea.

Acute – Skin : Irritating to skin. Symptoms may include redness and itchiness. Repeated or prolonged skin contact may lead to dermatitis. May cause sensitization by skin contact.

Acute – Inhaled : May cause irritation to respiratory system. Symptoms may include headache, nausea and dizziness.

Chronic Hazards: Possible risk of irreversible effects. Male rodents exposed to MEKO vapor throughout their lifetime developed liver cancer. Additional testing is planned by the MEKO supplier to determine any relevance to humans. Until more data is known, exposure levels should be maintained as low as achievable. The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion :If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

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

There are no data available on the mixture itself. If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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

Notes to physician :Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments :No specific treatment.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Recommended: alcohol-resistant foam, carbon dioxide, powders.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture :

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Hazardous combustion products :Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.4 Advice for firefighters Special protective actions for fire-fighters : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

5.5 Special protective equipment for fire-fighters : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and

For non-emergency personnel : Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : Keep unnecessary and unprotected personnel from entering If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel.

6.2 Environmental precautions : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance.

6.3 Methods and material for containment and cleaning up : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections :

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment.

Steps To Be Taken If Material Is Released Or Spilled: Wear appropriate personal protective equipment and clothing to minimize exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container for subsequent disposal. Dispose of waste according to the Environmental Protection Authority (EPA), federal, state and local regulations. If large quantities of this material enter the waterways contact the EPA, or your local Waste Management Authority. Disposal Considerations: Dispose of waste according to Environmental Protection Authority, federal, state and local regulations.

SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the

7.1 Precautions for:

Avoid contact with skin and eyes. Avoid inhalation of vapour, spray or mist.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or water course.

7.2 Conditions for safe storage, including any incompatibilities :

Store in accordance with local regulations.

Notes on joint storage.

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions.

Store in a dry, cool and well-ventilated area. Keep container tightly closed.

No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Contaminated absorbent material may pose the same hazard as the spilt product.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE.

Handling: Open containers cautiously as contents may be under pressure. Use only in a well-ventilated area. DO NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Keep tank covered and containers sealed when not in use. Build-up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapor and mists. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with large quantities, repeated or prolonged exposure without protection should be prevented in order to lessen the possibility of disorders. It is essential that all who come into contact with this material, maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Storage: Store in a cool, dry, well-ventilated area away from sources of ignition, oxidizing agents, foodstuffs, clothing and out of direct sunlight. Protect from moisture. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Do NOT pressurize, cut, heat or weld containers as they may contain hazardous residues.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value know

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2 Exposure controls Appropriate engineering controls :

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Individual protection measures

Hygiene measures :

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Skin protection

Hand protection: Wear suitable gloves tested to EN374.

Gloves: Short term exposure less than 10 minutes Continuous use Nitrile gloves. Long Term Exposure Spill / For prolonged or repeated handling, use PE / PE.

Laminate gloves > 8 hours (breakthrough time) There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Personnel should wear protective clothing.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Recommended: particulate filter, P2-P3 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls : Do not allow to enter drains or watercourses.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product.

Exposure Limits: No value assigned for this specific material by the Australian National Occupational Health and Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labor. As with all chemicals, exposure should be kept to the lowest possible levels.

Engineering Controls: Provide sufficient ventilation. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye Protection: Safety glasses with side shields or face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments.

Glove Type: Impervious gloves recommended. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.

Clothing: Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

Other Information: No biological limit allocate.

Hygienic Practices: Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	:	Paste
Colour	:	Clear
Odour	:	Characteristic
Odour threshold	:	Not relevant/applicable due to nature of the product

pH : Not applicable

Melting point/freezing point : Not relevant/applicable due to

Initial boiling point : Not available.

Flash point : Closed cup

Evaporation rate : Slower than Ether

Flammability (solid, gas): Not relevant/applicable due to

Upper/lower flammability or explosive limit

Vapour pressure : Testing not technically possible

Vapour density : Not relevant/applicable due to nature of the product

Relative density : 1.450377281

Solubility(ies) : Not relevant/applicable due to nature of the product

Solubility in water : Not relevant/applicable due to

Partition coefficient: n-octanol/water Not relevant/applicable due to nature of the product

Auto-ignition temperature : Not Available (Not Tested).

Decomposition temperature : Not relevant/applicable due to nature

Viscosity : Kinematic

Explosive properties : Under normal conditions of storage and use, hazardous reactions will not occur

Oxidising properties : Under normal conditions of storage and use, hazardous reactions will not occur

9.2 Other information

Aerosol product

Heat of combustion : 0.116 kJ/

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effect

There are no data available on the mixture itself. If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye con.

Acute toxicity

No data available

Acute toxicity estimates

No data available

Irritation/Corrosion

Conclusion/Summary : Not available

Sensitisation

Conclusion/Summary : Not Available

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

There are no data available on the mixture itself. Do not allow.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

12.2 Persistence and degradability

Conclusion/Summary : Not

12.3 Bioaccumulative potential

No data available

12.4 Other adverse effects :

No known significant effects or critical hazards.

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

12.5 Results of PBT and vPvB assessment

PBT: Not available.

vPvB : Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment method

Product Methods of disposal :

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : No

Disposal considerations : Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

WASTE DESIGNATION
waste adhesives and sealants other than those

Packaging Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

European waste catalogue (EWC) : Recycling possible. Ensure packaging is completely empty before recycling. Dispose of uncured residues in the same way as the product itself. Plastic articles 15 01 02 - metallic packaging 15 01 04 - mixed packaging 15 01 06.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
14.1 UN NUMBER	Not Regulated	Not available	Not available
14.2 UN Proper Shipping Name	-	Not available	Not available
14.3 Transport Hazard Class(es)/ Label(s)	-	Not available	Not available
14.4 Packing Group	-	-	-
14.5 Environmental Hazards	No	No	No

14.6 Special precautions for user :

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Sea Transport (IMDG): Not subject to IMDG code.

Air Transport (IATA): Not subject to IATA regulations.

Special Requirements and Additional Information: No.

SECTION 15: REGULATORY INFORMATION

Annex XVII - Restrictions : Not applicable. On the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Other EU regulations Seveso Directive.

This product is not controlled under the Seveso Directive.

Chemical safety : No Chemical Safety Assessment has BEEN CARRIED OUT.

Hazard Category: Harmful, Irritant.

IECSC: All ingredients listed or exempt.

KECL: All ingredients listed, exempt or notified.

MITI: All components are listed on ENCS or its exempt rule.

TSCA (USA): All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS (Australia): All ingredients listed or exempt.

DSL (Canada): All chemical substances in this material are included on or exempted from the DSL.

PICCS (Philippines): All ingredients listed or exempt.

EINECS/ELINCS (EC): EINECS: All ingredients listed or exempt.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

ATE = Acute Toxicity Estima

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DMEL = Derived Minimal Effect Level

DNEL =Delivered No Effect Level

EUH statement = CLP-specific Hazard statement

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Key literature references and sources for data:

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

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

DPD = Dangerous Preparations Directive [1999/45/EC

DSD = Dangerous Substances Directive [67/548/EEC]

ATA = International Air Transport

IMDG = International Maritime Dangerous Goods

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

Directive 2012/18/EU, and relative amendments & additions

Directive 2008/98/EC, and relative amendments & additions

Directive 2009/161/EU, and relative amendments & additions

CEPE Guidelines

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not Classified	

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non-Sherwin- Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country or local laws. The conditions for use of the product are not under the control of the manufacturer, therefore the customer/buyer/ user is responsible for determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this MSDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for MSDSs obtained from any other so.