

SAFETY DATA SHEET



Ice Wax 2.0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : Ice Wax 2.0
Product type : Liquid.
Product description : Bicycle lubricant.

Use of the substance/preparation

Sector of Use	Chemical Product Category	Process Category	Article Category	Environmental Release Category
Industrial Manufacturing (all)	Lubricants, Greases and Release Products	Lubrication at high energy conditions and in partly open process Industrial or non-industrial setting	Bicycle lubricant.	Not applicable.

Company/undertaking identification

Supplier/Manufacturer : Pedro's Incorporated
600 Research Drive
Wilmington, Massachusetts 01887

e-mail address of person responsible for this SDS : msds@pedros.com

Emergency telephone number (with hours of operation) : CHEMTREC International: (703) 527-3887
24/7

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36/38

Human health hazards : Irritating to eyes and skin.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
Europe/Luxembourg 2-Amino-2-methylpropanol See section 16 for the full text of the R-phrases declared above	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53 [1]
Sweden 2-Amino-2-methylpropanol See section 16 for the full text of the R-phrases declared above	124-68-5	10-25	204-709-8	Xi; R36/38 R52/53 [1]
Denmark 2-Amino-2-methylpropanol See section 16 for the full text of the R-phrases declared above	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53 [1] [2]
Norway 2-Amino-2-methylpropanol See section 16 for the full text of the R-phrases declared above	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53 [1]
France				

3. COMPOSITION/INFORMATION ON INGREDIENTS

2-Amino-2-methylpropanol	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Netherlands</p>					
2-Amino-2-methylpropanol	124-68-5	10-25	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Germany</p>					
2-Amino-2-methylpropanol	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1] [2]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Finland</p>					
2-Amino-2-methylpropano	124-68-5	10-25	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>United Kingdom (UK)</p>					
2-Amino-2-methylpropanol	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Austria</p>					
2-Amino-2-methylpropanol	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Switzerland</p>					
2-Amino-2-methylpropano	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Belgium</p>					
2-Amino-2-methylpropanol	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Spain</p>					
2-Amino-2-methylpropanol	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Czech Republic</p>					
2-Amino-2-methylpropanol	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Italy</p>					
2-Amino-2-methylpropano	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Estonia</p>					
2-Amino-2-methylpropanol	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]

3. COMPOSITION/INFORMATION ON INGREDIENTS

<p>See section 16 for the full text of the R-phrases declared above</p> <p>Poland</p> <p>2-Amino-2-methylpropanol</p>	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Slovenia</p> <p>2-Amino-2-methylpropano</p>	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Latvia</p> <p>2-Amino-2-methylpropanol</p>	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Greece</p> <p>2-Amino-2-methylpropanol</p>	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p> <p>Portugal</p> <p>2-Amino-2-methylpropano</p>	124-68-5	5 - 10	204-709-8	Xi; R36/38 R52/53	[1]
<p>See section 16 for the full text of the R-phrases declared above</p>					

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

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

4. FIRST AID MEASURES

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contract

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Packaging materials

Recommended : Use original container.

Czech Republic - Storage code : IV

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Ingredient name

Occupational exposure limits

Europe/Luxembourg

No exposure limit value known.

Sweden

No exposure limit value known.

Denmark

2-Amino-2-methylpropanol

Arbejdstilsynet (Denmark, 10/2002). Notes: Tentative
GV: 3 ppm 8 hour(s).

Norway

No exposure limit value known.

France

No exposure limit value known.

Netherlands

No exposure limit value known.

Germany

2-Amino-2-methylpropanol

TRGS900 AGW (Germany, 7/2008).
PEAK: 9.2 mg/m³ 15 minute(s).
PEAK: 2 ppm 15 minute(s).
TWA: 4.6 mg/m³ 8 hour(s).
TWA: 1 ppm 8 hour(s).

Finland

No exposure limit value known.

United Kingdom (UK)

No exposure limit value known.

Austria

No exposure limit value known.

Switzerland

No exposure limit value known.

Belgium

No exposure limit value known.

Spain

No exposure limit value known.

Czech Republic

No exposure limit value known.

Italy

No exposure limit value known.

Estonia

No exposure limit value known.

Poland

No exposure limit value known.

Slovenia

No exposure limit value known.

Latvia

No exposure limit value known.

Greece

No exposure limit value known.

Portugal

No exposure limit value known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this necessary.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection : 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.



Hygiene measures : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable level:

Protection based on MAL : **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 4-3

Application: When spraying in new* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied half mask and eye protection must be worn.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Air-supplied half mask, coveralls and eye protection must be worn.

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Liquid. [Opaque.]

Colour : Tan.

Odour : Characteristic.

Odour threshold : Not available.

Important health, safety and environmental information

Boiling point : 100°C (212°F)

Relative density : 0.975 to 0.995

Solubility : Miscible in water.

VOC : 67 to 71% (v/v)

10. STABILITY AND REACTIVITY

Chemical stability : The product is stable.

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

Conditions to avoid : No specific data.

Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics

- Absorption** : Not available.
- Distribution** : Not available.
- Metabolism** : Not available.
- Elimination** : Not available.

Potential acute health effects

- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin.
- Eye contact** : Irritating to eyes.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Amino-2-methylpropano	LD50 Oral	Rat	2900 mg/kg	-

Potential chronic health effects

Carcinogenicity

- Chronic effects** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:
irritation
redness
- Eyes** : Adverse symptoms may include the following:
irritation
watering
redness

12. ECOLOGICAL INFORMATION

- Ecotoxicity** : No known significant effects or critical hazards.

Aquatic ecotoxicity

- Conclusion/Summary** : Not available.

Other ecological information

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-Amino-2-methylpropano	OECD 302B	50 % - Inherent - 28 days	-	-

- Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Amino-2-methylpropanol	-	-	Inherent

- Other adverse effects** : No known significant effects or critical hazards.

- PBT** : Not applicable.

- vPvB** : Not applicable.

13. DISPOSAL CONSIDERATIONS

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

14. TRANSPORT INFORMATION

International transport regulations

- ADR/RID / IMDG / IATA Classes** : Not regulated by any transport mode.

15. REGULATORY INFORMATION

- Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

- Hazard symbol or symbols** :



Irritant

- Risk phrases** : R36/38- Irritating to eyes and skin.
- Safety phrases** : S2- Keep out of the reach of children.
S24/25- Avoid contact with skin and eyes.
S46- If swallowed, seek medical advice immediately and show this container or label.
- Product use** : Consumer applications, Industrial applications.
- Europe inventory** : All components are listed or exempted.
- Black List Chemicals** : Not listed
- Priority List Chemicals** : Not listed
- Integrated pollution prevention and control list (IPPC) - Air** : Not listed
- Integrated pollution prevention and control list (IPPC) - Water** : Not listed

National regulations

Denmark

- Hazard symbol or symbols** :




Irritant

- Risk phrases** : R36/38- Irritating to eyes and skin.
- Safety phrases** : S2- Keep out of the reach of children.
S24/25- Avoid contact with skin and eyes.
S46- If swallowed, seek medical advice immediately and show this container or label.
- MAL-code** : 4-3
- Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order on young people's dangerous work.
- List of undesirable substances** : Not listed

15. REGULATORY INFORMATION

Norway

Hazard symbol or symbols : 

Irritant

Risk phrases : R36/38- Irritating to eyes and skin.

Safety phrases : S2- Keep out of the reach of children.
S24/25- Avoid contact with skin and eyes.
S46- If swallowed, seek medical advice immediately and show this container or label.

Carcinogenic class : Not classified.

France

Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: Not applicable.

Netherlands

Water Discharge Policy (ABM) : Slightly harmful to aquatic organisms. Contains substances that are harmful to the aquatic environment. Abatement effort: A

Germany

Hazard class for water : 1 Appendix No. 4

Austria

Classification, packaging and labelling : 

Limitation of the use of organic solvents : Permitted.

Switzerland

VOC content : Liberated.

Italy

D.Lgs. 152/06 : Not classified.

International regulations

Chemical Weapons Convention: Not listed
List Schedule I Chemicals

Chemical Weapons Convention: Not listed
List Schedule II Chemicals

Chemical Weapons Convention: Not listed
List Schedule III Chemicals

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Europe : R36/38- Irritating to eyes and skin.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - Europe : Xi - Irritant

Restrictions on use

Sector of Use	Chemical Product Category	Process Category	Article Category	Environmental Release Category
None identified.				

History

Date of issue : 02/15/2009

Version : 1

16. OTHER INFORMATION**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.