
SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER

Product name: Armal Disk

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Use of the mixture: Fragrance enhancer for odour control in portable toilets. Professional use only.

Use advised against: All other uses. Not for general public use.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name of the supplier: J ARMAL, INC.
122 Hudson Industrial Drive
Griffin, GA 30224
Telephone: 770-491-6410
E-mail:armal-inc@armal.us

1.4 EMERGENCY TELEPHONE NUMBER

+011 352-323-3500 (24/7)
Germany 0800-1812924

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

Classification according to Regulation No 1272/2008 (CLP):

Acute Toxicity (oral), category 2, H302
Skin Irritant, category 2, H315
Skin Sensitiser, category 1, H317
Aquatic Chronic, category 2, H411

2.2 LABEL ELEMENTS

Labelling according to Regulation No 1272/2008 (CLP):

Pictograms:



Signal Word: WARNING

Hazard Statements: H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H412 Harmful to aquatic life with long lasting effects

Precautionary Statements:

Prevention: P264 Wash hands thoroughly after handling
P273 Avoid release to the environment
P280 Wear protective gloves

Response: P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P391 Collect spillage

Disposal P501 Dispose of contents according to local regulations.

2.3 OTHER HAZARDS

 This mixture contains no PBT/vPvB substances $\geq 0.1\%$.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1 SUBSTANCES

The product is a mixture.

3.2 MIXTURES

Substance name	CAS No	EC No	REACH registration No	Conc. % (w/w)	Classification according to Regulation No 1272/2008 (CLP)
Orange, sweet, ext.	68647-72-3	614-678-6	Registration not required	5-10	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Undecan-4-olide	104-67-6	203-225-4	Registration not required	5-10	Aquatic Chronic 3, H412
Methyl anthranilate	134-20-3	205-132-4	Registration not required	1-5	Eye Irrit. 2, H319
Vanillin	121-33-5	204-465-2	Registration not required	1-5	Eye Irrit. 2, H319
Benzaldehyde *	100-52-7	202-860-4	Registration not required	1-5	Acute Tox. 4, H302
Allyl 3-cyclohexylpropionate	2705-87-5	220-292-5	Registration not required	1-5	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Sens 1B, H317 Aquatic Chronic 1, H410
Allyl hexanoate	123-68-2	204-642-4	Registration not required	1-5	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	225-582-5	Registration not required	1-5	Acute Tox. 4, H302
Pentyl acetate *	628-63-7	211-047-3	Registration not required	1-5	Flam. Liq. 3, H226
Pin-2(3)-ene *	80-56-8	201-291-9	Registration not required	0,1-1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
α -hexylcinnamaldehyde	101-86-0	202-983-3	Registration not required	0,1-1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Linalool	78-70-6	201-134-4	Registration not required	0,1-1	Skin Sens. 1B, H317
Lavandin Oil	8022-15-9	617-009-6	Registration not required	0,1-1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Turpentine, oil *	8006-64-2	232-350-7	Registration not required	0,1-1	Flam. Liq. 3, H226 Acute Tox. 4, H302

					Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Acute Tox. 4, H332 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
7-hydroxycitronellal	107-75-5	203-518-7	Registration not required	0,1 - 5	Skin Sens 1B, H317 Eye Irrit. 2, H319

* Substance with workplace exposure limits, see section 8.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

- GENERAL:** If unwell or concerned, get medical attention or call a Poison Centre. If medical advice is needed, have product container or label at hand.
- IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If case of eye irritation, get medical advice/attention.
- ON SKIN:** Wash skin with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- SWALLOWED:** DO NOT induce vomiting. Spit product out of mouth as much as possible. Wash mouth out with water. Seek medical attention. Never give anything to an unconscious person.
- INHALED:** If unwell, move to fresh air.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- SKIN:** Possible irritation: Inflammation, redness, irritation.
Possible allergic reaction: redness, swelling, itchy skin, rash.

SWALLOWED: Stomach discomfort.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically. Clear water point recommended at the workplace.

SECTION 5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

- Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical, alcohol resistant foam.
Unsuitable Extinguishing Media: Water jet to prevent fire spreading.

5.2 SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

In case of fire, do not breath fumes. Combustion products may include carbon monoxide and dioxide.

5.3 ADVICE FOR FIREFIGHTERS

Exercise caution when fighting any chemical fire. Prevent human exposure to fire, fumes, smoke, and products of combustion. Wear self-contained breathing apparatus to fight fires. Prevent fire-fighting water from entering environment. Keep containers cool with water spray. Collect extinguishing waters.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wash hands and other exposed skin areas thoroughly with mild soap and water after handling. Take off contaminated clothing and wash it before reuse.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Sweep up, shovel and place in a container for disposal as hazardous waste according to local regulations.

6.4 REFERENCE TO OTHER SECTIONS

Refer to sections 7, 8, 12 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with good hygiene and safety practice. Wear personal protective equipment as per Section 8. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling, before eating, drinking, or smoking and when leaving work. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool, dry area away from heat, direct sunlight and ignition sources. Keep in tightly closed, original and dry container.

Do not store with oxidising agents. Do not store near food stuffs, water or feed.

Recommended packaging: same type as original packaging.

Unsuitable packaging: none known.

7.3 SPECIFIC END USE(S)

Refer to section 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Where listed, National Occupational Exposure limits (OEL) applicable in EU, Germany, Latvia, Romania and Switzerland for:

Substance	Limit value – Eight hours		Limit value – Short term	
	ppm	mg/m ³	ppm	mg/m ³
<i>Pentyl acetate</i> CAS No 628-63-7 European Union	50	270	100 (1)	540 (1)
<i>Dioctyl adipate</i> CAS No 103-23-1 Poland		400		
<i>Benzaldehyde</i> CAS No 100-52-7				
Finland	1	4,4	-	17,4 (2)
Hungary	-	5	4 (2)	10 (1)
Latvia	-	5	-	-
Poland	-	10	-	40 (1)
<i>Pin-2(3)-ene</i> CAS No 80-56-8				
Belgium	20	-	-	-
Norway	25 (3)	140 (3)	-	-
Spain	20	113	-	-
Sweden	25	150	50 (1)	300 (1)
Switzerland	20	112	40 (1)	224 (1)

<i>2-methylbutyl acetate CAS No 624-41-9</i>				
Belgium	50	270	-	540 (1)
Denmark	50	271	100 (1)	532 (1)
Finland	50	270	100 (1)	540 (1)
Germany (AGS)	50	270	100 (1)	270 (1)
Germany (DFG)	50	270	50 (1)	270 (1)
Spain	50	270	50 (1)	540 (1)
Sweden	100	500	100 (1)	800
The Netherlands	-	-	150	530(1)
<i>Turpentine, oil CAS No 8006-64-2</i>				
Belgium	20	-	-	-
Denmark	25	140	50	280
Finland	25	140	50 (1)	280 (1)
France	100	560	-	-
Germany (DFG)	5 (3)	28 (3)	10 (1)(3)	56 (1)(3)
Hungary	-	560	-	560
Ireland	20	112	150 (5)	840 (5)
Latvia	-	300 (4)	-	-
Norway	25 (3)	140 (3)	-	-
Poland	-	112	-	300 (1)
Romania	-	400	-	500 (1)
Spain	20	113	-	-
Sweden	25	150	50 (1)	300 (1)
Switzerland	20	112	40 (1)	224 (1)

(1) 15 minutes average value (2) Ceiling limit value (3) Skin (4) Essence of turpentine (5) 15 minutes reference period

8.2 EXPOSURE CONTROLS

8.2.1 Appropriate Engineering Control Measures:

HAND PROTECTION: Gloves EN 374 recommended. Suggested material: nitrile rubber.

EYE PROTECTION: Not necessary under normal use.

SKIN PROTECTION: Suitable protective clothing to avoid contact with skin recommended.

RESPIRATORY PROTECTION: Not necessary under normal use.

THERMAL HAZARDS: See Sections 6 and 7.

HYGENIC PRACTICES: Handle in accordance with good professional hygiene and safety practice. Wash hands thoroughly after handling.

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid release to the environment.

SECTION 9. PHYSICAL/CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid disk
Colour	Various
Odour	Pleasant fragrances
Melting point/freezing point	No data available
Boiling/initial point and boiling range	No data available
Flammability	Non flammable
Lower and upper explosion limit	No data available
Flash point	>62 °C, for the liquid absorbed on to the solid disk
Auto-ignition temperature	No data available

Decomposition temperature	No data available
pH	Not applicable
Kinematic viscosity	No data available
Solubility	Not soluble in water
Partition coefficient n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

9.2 OTHER INFORMATION

No other relevant information available

SECTION 10. STABILITY AND REACTIVITY**10.1 REACTIVITY**

No dangerous reactions known under normal conditions of use recommended in section 7.

10.2 CHEMICAL STABILITY

Stable under recommended handling and storage conditions (see Section 7).

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Under handling and storage conditions recommended in section 7, no hazardous reaction.

10.4 CONDITIONS TO AVOID

Sources of ignition. Do not store oxidising agents.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

See section 5 for combustion products.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

No experimental test data are available on the mixture. The product has been classified based on the hazards of the known components.

ACUTE TOXICITY:

Based on available data, Harmful if swallowed.

SKIN CORROSION/IRRITATION:

Based on available data, causes skin irritation.

SERIOUS EYE DAMAGE/IRRITATION:

Based on available data, the classification criteria are not met.

RESPIRATORY OR SKIN SENSITIZATION:

Based on available data, May cause an allergic skin reaction. Contains several skin sensitizer substances.

GERM CELL MUTAGENICITY:

Based on available data, the classification criteria are not met.

CARCINOGENICITY:

Based on available data, the classification criteria are not met.



REPRODUCTIVE TOXICITY:

Based on available data, the classification criteria are not met.

STOT-SINGLE EXPOSURE:

Based on available data, the classification criteria are not met.

STOT-REPEATED EXPOSURE:

Based on available data, the classification criteria are not met.

ASPIRATION HAZARD:

Based on available data, the classification criteria are not met.

11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties:

The mixture does not contain substances considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY

No experimental test data are available on the mixture. The product has been classified based on the hazards of the known components. Based on available data, the product is toxic to aquatic life with long lasting effects (chronic).

12.2 PERSISTENCE AND DEGRADABILITY

Not established.

12.3 BIOACCUMULATIVE POTENTIAL

Not established.

12.4 MOBILITY IN SOIL

Not applicable to mixtures.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Not applicable to mixtures. No PBT/vPvB substances in the mixture.

12.6 ENDOCRINE DISRUPTING PROPERTIES

The mixture does not contain substances considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 OTHER ADVERSE EFFECTS

No other relevant information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Dispose of in accordance with all appropriate governmental and local regulations as hazardous waste. Avoid release to the environment other than via the advised use of the product.

Unused packaging: Discard according to the local regulations as hazardous waste. Do not discharge product in sewage and drainage systems which lead to waterways.

Contaminated packaging: Waste product and worn-out packages must be discarded according to the local regulations as hazardous waste.

SECTION 14. TRANSPORT INFORMATION

Land Transport

Road/Rail (ADR/RID)
NOT REGULATED

MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not applicable to packaged goods.

Air Transport:

NOT REGULATED

SECTION 15. REGULATORY INFORMATION

14.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This Safety Data Sheet is provided in compliance with EU REACH Regulation No 1907/2006 as amended by Regulation (EU) 2020/878.

14.2 CHEMICAL SAFETY ASSESSMENT:

No Chemical Safety Assessment has been carried out.

SECTION 16. OTHER INFORMATION

This Safety Data Sheet replaces any previous version.

<u>Version</u>	<u>Comment</u>	<u>Date</u>
2025	First UFI issue	July 2025

Key literature references and sources for data: supplier's SDS and ECHA C&L website.

Abbreviation explanations:

- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: Very Persistent and Very Bioaccumulative
- Flam. Liq. 3: Flammable Liquid category 3
- Skin Irrit. 2: Skin Irritant category 2
- Eye Irrit. 2: Eye Irritant category 2
- Skin Sens.1/1B: Skin Sensitiser category 1/1B
- Acute Tox. 3/4: Acute Toxicity category 3/4
- Asp. Tox. 1: Toxic by Aspiration category 1

Full text of Hazard- and EU Hazard-statements:

- H226: Flammable liquid and vapour
 - H301: Toxic if swallowed
 - H302: Harmful if swallowed
 - H304: May be fatal if swallowed and enters airways
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- H311: Toxic in contact with skin
- H312: Harmful in contact with skin
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H331: Toxic if inhaled
- H332: Harmful if inhaled
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects
- H412: Harmful to aquatic life with long lasting effects

Calculation based on the hazards of the known components. This safety data sheet is prepared in accordance with Regulation (EC) No 453/2010 and 2020/878.

The information accumulated herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

The information contained in this safety data sheet has been given in good faith and is based on our most recent technical knowledge and current legislation at European level regarding the product at the time of publication.

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