



**ARROWHEAD
FORENSICS**

Page 1/11

Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

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

- **Product identifier**
- **Trade name:** *Nin + Ultra*
- **Article number:** A-3125NIN
- **Relevant identified uses of the substance or mixture and uses advised against** *Forensic Field Test*
- **Application of the substance / the mixture** *Detection of finger prints on absorbable surfaces.*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*Mistral Security INC
7910 Woodmont Ave, Ste 820
Tel: (301) 913-9366
Fax: (301) 913-9369*
- **Manufactured for/Distributor:**
*Arrowhead Forensics
11030 Strang Line Road
Tel: (913) 894-8388
www.arrowheadforensics.com*
- **Further information obtainable from:** *Product safety department.*

2 Hazards identification

- **Classification of the substance or mixture**



flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Acute Tox. 5 H333 May be harmful if inhaled.

- **Label elements**

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

Hazard pictograms: GHS02, GHS07, GHS09
Signal word: *Danger*

Hazard-determining components of labelling:

(Contd. on page 2)



**ARROWHEAD
FORENSICS**

Page 2/11

Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 1)

Petroleum ether 40-60 celcius degrees

Hazard statements:

H222-H229, H315, H319, H336, H411

Precautionary statements:

P101, P102, P103, P210, P251,

P305+P351+P338, P405, P410+P412, P501

Labelling of packages where the contents do not exceed 125 ml:

Hazard pictograms: GHS02, GHS07, GHS09

Signal word: Danger

Hazard-determining components of labelling:

Petroleum ether 40-60 celcius degrees

Hazard statements:

H222-H229

Precautionary statements:

P101, P102, P103, P210, P251, P211, P410+P412

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms *GHS02, GHS07, GHS08, GHS09*

· Signal word *Danger*

· Hazard-determining components of labelling:

Petroleum ether 40-60 celsius degrees

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H333 May be harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)



Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 2)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

	Petroleum ether 40-60 celsius degrees	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	>30%
67-63-0	propan-2-ol	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	5-15%
64-19-7	acetic acid	Flam. Liq. 3, H226 Skin Corr. 1A, H314	<5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
Move containers from fire area if possible to do so without risk.
Use water spray or water to cool unopened containers.

(Contd. on page 4)



Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 3)

· **Protective equipment:**

Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

* **6 Accidental release measures**

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin eyes and inhalation of vapor. Ventilate area of spill . Beware of vapour accumulation to form explosive concentrations . Vapour can accumulate in low areas.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Absorb the chemical onto sand, vermiculite or any other non-combustible absorbent and collect into containers for later disposal.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* **7 Handling and storage**

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Do not breathe vapors.

Avoid contact with skin and eyes.

Avoid inhalation of vapor or mist.

Wash thoroughly after handling .

Do not permit eating / drinking / smoking near the material.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

(Contd. on page 5)



Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 4)

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

67-63-0 propan-2-ol

ACGIH-TLV 200 ppm (TWA), 400 ppm (STEL)

64-19-7 acetic acid

ACGIH-TLV 10 ppm (TWA), 15 ppm (STEL)

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 6)



Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 5)

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Wear appropriate long - sleeved clothing to minimize skin contact.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Aerosol
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.

· **pH-value at 20 °C:** 5

· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	40-60 °C (Petroleum ether)

· **Flash point:** -40 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapour pressure:** Not determined.

· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.

(Contd. on page 7)



Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 6)

- | | |
|---|--|
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| VOC (EC) | 99.66 |
| Solids content: | 0.3 % |
| · Other information | No further relevant information available. |

* **10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under ordinary conditions of use and storage.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Keep away from heat , open flame and sparks. Extreme temperatures and direct sunlight.
- **Incompatible materials:**
Oxidizing agents, alkali metals, alkaline earth metals , powdered metals, powdered metal salts.
- **Hazardous decomposition products:**
Under fire emits fumes of hydrogen chloride , hydrogen fluoride , carbonyl fluoride and other irritating and toxic fumes.

* **11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

485-47-2 indan-1,2,3-trione

Oral	LD50	600 mg/kg (rat)
------	------	-----------------

64-19-7 acetic acid

Oral	LD50	3310 mg/kg (rat)
------	------	------------------

Dermal	LD50	1060 mg/kg (rabbit)
--------	------	---------------------

67-63-0 propan-2-ol

Oral	LD50	5045 mg/kg (rat)
------	------	------------------

Dermal	LD50	12800 mg/kg (rabbit)
--------	------	----------------------

Inhalative	LC50/4 h	30 mg/l (rat)
------------	----------	---------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.

(Contd. on page 8)



Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 7)

- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Carcinogenic.
The product can cause inheritable damage.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---------------------|
| · UN-Number | UN1950 |
| · ADR, IMDG, IATA | |
| · UN proper shipping name | 1950 AEROSOLS |
| · ADR | AEROSOLS |
| · IMDG | Aerosols, flammable |
| · IATA | |

(Contd. on page 9)

Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 8)

· **Transport hazard class(es)**· **ADR**

· **Class** 2 5F Gases.
· **Label** 2.1

· **IMDG, IATA**

· **Class** 2.1
· **Label** 2.1

· **Packing group**

· **ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Special marking (ADR):** Symbol (fish and tree)

· **Special precautions for user**

Warning: Gases.

· **Danger code (Kemler):**

-

· **EMS Number:**

F-D,S-U

· **Stowage Code**

SWI Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

EAC: (1)

· **ADR**· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **Transport category**

2

(Contd. on page 10)



Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: Nin + Ultra

(Contd. of page 9)

· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	IL
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P3b FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- National regulations:
- Information about limitation of use:
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

Class	Share in %
II	2.2
NK	43.2

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
All information contained in the present sheet is based on the manufacturer data. The use of this product is not subject to our direct control : therefore , users must under their own responsibility comply with the current health and safety laws and regulation.

- Relevant phrases
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
- Department issuing MSDS: Product safety department.

(Contd. on page 11)



**ARROWHEAD
FORENSICS**

Page 11/11

Safety data sheet
According to 1907/2006 EEC

Printing date 11.02.2016

Version number 1

Revision: 11.02.2016

Trade name: *Nin + Ultra*

(Contd. of page 10)

· **Contact:**

Mistral Security INC
7910 Woodmont Ave, Ste 820
Tel: (301) 913-9366
Fax: (301) 913-9369

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Aerosol 1: Flammable aerosols, Hazard Category 1
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 5: Acute toxicity, Hazard Category 5
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

· *** Data compared to the previous version altered.**

IL