# SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Acetaldehyde-DNPH NAME OF MANUFACTURER : GL Sciences Inc.

ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan

CHARGE SECTION : International Sales Section

TELEPHONE No. : +81-3-5323-6620 FACSIMILE No. : +81-3-5323-6621 PRODUCT No. : 1021-31010 SDS No. : 1021-31010

Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Flammable solid : Category 2

Acute toxicity - oral - : Category 4
Skin corrosion/irritation : Category 2
Eye damage/irritation : Category 2

HAZARD SYMBOL





SIGNAL WORD : Warning

HAZARD STATEMENTS

H228 Flammable solids
H302 Harmful if swallowed
H315 Cause skin irritation

H319 Cause serious eye irritation

PRECAUTIONARY STATEMENTS:

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

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 In case of fire: Use appropriate medias to extinguish.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical attention.
P337+P313 If eye irritation persists: Get medical attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME : Acetaldehyde-2,4-dinitrophenylhydrazone

SYNONYMS : Acetaldehyde-DNPH

CONTENT : > 98%

CHEMICAL FORMULA : C8H8N4O4

CAS NUMBER : 1019-57-4

TSCA INVENTORY : Listed

EINECS No : Not established EC INDEX No. : Not established

PRODUCT NAME : Acetaldehyde-DNPH

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After using this product, dispose of contents/container in accordance with all

applicable regulations and appropriate ways.

Store away from sunlight, heat and all ignition sources in well-ventilated dry **STORAGE** 

place. Keep container tightly closed.

INCOMOPATIBLE PRODUCTS : Strong oxidizers, acids

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**ENGINEERING MEASURES** : Use exhaust ventilation to keep airborne concentrations below exposure limits.

Use only with adequate ventilation.

**VENTILATION** : Local Exhaust; Necessary, Mechanical(General); Recommended

PERSONAL PROTECTION

RESPIRATORY PROTECTION : Safety mask(Use respirators approved under appropriate government

standards and follow all regulations.)

HAND PROTECTION : Protective gloves **EYE PROTECTION** Safety glasses(goggles) SKIN PROTECTION Protective clothing

**CONTROL PARAMETERS** 

**ACGIH** : No data available **OSHA PEL** : No data available PRODUCT NAME : Acetaldehyde-DNPH

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Light yellow, reddish yellow
SHAPE : Solid (crystal, powder)
ODOR : No data available
pH : No data available
BOILING POINT : No data available

MELTING POINT : 164 °C

FLASH POINT : No data available EXPLOSIVE LIMITS : No data available VAPOR PRESSURE : No data available VAPOR DENSITY : No data available SPECIFIC GRAVITY : No data available SOLUBILITY IN : No data available

PARTITION COEFFICIENT; n-octanol/water

: No data available

AUTOIGNITION TEMPERATURE : No data available

10. STABILITY AND REACTIVITY

REACTIVITY : Stable under recommended storage conditions.

CHEMICAL STABILITY : Decomposed by heat, shock, or friction.

CONDITION TO AVOID : Sunlight, heat, open flames, high temperature, sparks, static electrical charge,

shock, friction

INCOMPATIBILE MATERIALS : No data available

HAZARDOUS DECOMPOSITION PRODUCTS

: CO, CO2, NOx

### 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : No data available SKIN CORROSION/IRRITATION : No data available EYE DAMAGE/EYE IRRITATION : No data available SENSITIZATION : No data available GERM CELL MUTAGENICITY : No data available CARCINOGENICITY : No data available

SPECIFIC TARGET ORGAN TOXICITY

No data available

ASPIRATION TOXICITY : No data available

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY : No data available BIODEGRADABILITY : No data available BIOACCUMULATION POTENTIAL : No data available MOBILITY IN SOIL : No data available

OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

# 13. DISPOSAL INFORMATION

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

## 14. TRANSPORT INFORMATION

IATA

UN NUMBER : 1325

UN PROPER SHIPPING NAME : FLAMMABLE SOLID, ORGANIC, N.O.S (Nitro compounds)

CLASS : Class 4.1, Flammable Solids

PACKING GROUP : III

ADR/RID : 1325, Flammable Solids DOT : 1325, Flammable Solids

MARINE POLLUTANT : Not classified

#### 15. REGULATORY INFORMATION

US REGULATIONS : Labeling according to EC Directives; See section 2 EU REGURATIONS : Labeling according to EC Directives; See section 2 PRODUCT NAME : Acetaldehyde-DNPH

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# 16. OTHER INFORMATION

#### NOTICE:

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

### Attention:

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.