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SAFETY DATA SHEET

Revision Date 07/17/2018 Print Date 11/21/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product name	:	Diazald®-( <i>N-<i>methyl-<sp>13C)</sp></i></i>
	Product Number Brand	:	277614 Aldrich
	CAS-No.	:	60858-95-9
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Synthesis of substances
1.3	Details of the supplier of t	he	safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052
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#### 1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)** Self-reactive substances and mixtures (Type C), H242

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Skin sensitisation (Category 1), H317

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Danger

Signal word Hazard statement(s) H242

Heating may cause a fire.

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H315 H317 H319 H335	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220	Keep/Store away from clothing/ combustible materials.
P234	Keep only in original container.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to
D402 + D222	extinguish.
P403 + P233 P403 + P235	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 P405	Store in a well-ventilated place. Keep cool.
P405 P411	Store locked up.
P411 P420	Store at temperatures not exceeding .? °C/ .? °F. Store away from other materials.
P501	Dispose of contents/ container to an approved waste disposal plant.
1 301	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1	Substances Synonyms	:	<i>N-Methyl-<sp>13C-<i>N-nitroso-<i>p- toluenesulfonamide</i></i></sp></i>		
	Formula	:	<sup>13</sup> CC <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> S		
	Molecular weight CAS-No.	:	215.23 g/mol 60858-95-9		
	Hazardous components				
	Component			Classification	Concentration
Diazald®- <i>N-methyl-<sp>13</sp></i>		SP>13C			
				Self-react. C; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; STOT SE 3; H242, H315, H317, H319, H335	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

## In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

## **5. FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

## 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Keep away from heat and sources of ignition.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. hygroscopic

Recommended storage temperature -20 °C

Storage class (TRGS 510): 5.2: Organic peroxides and self-reacting hazardous materials Aldrich- 277614

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

## Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

## Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

	a)	Appearance	Form: solid
	b)	Odour	No data available
	c)	Odour Threshold	No data available
	d)	рН	No data available
	e)	Melting point/freezing point	Melting point/range: 61 - 62 °C (142 - 144 °F) - lit.
	f)	Initial boiling point and boiling range	No data available
	g)	Flash point	No data available
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	No data available
	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapour pressure	No data available
	I)	Vapour density	No data available
	m)	Relative density	No data available
	n)	Water solubility	No data available
	o)	Partition coefficient: n-	No data available
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octanol/water

- p)Auto-ignition<br/>temperatureNo data availableq)Decomposition<br/>temperatureThe product is a self-reactive substance or mixture classified as type C.r)ViscosityNo data availables)Explosive propertiesNo data availablet)Oxidizing propertiesNo data available
- Other safety information
- 9.2 Other safety information No data available

## **10. STABILITY AND REACTIVITY**

## 10.1 Reactivity

No data available

#### **10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No data available

## 10.4 Conditions to avoid

may begin to self-heat and spontaneously ignite at temperatures above: 40°C Light. Heat, flames and sparks.

## 10.5 Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

Other decomposition products - No data available In the event of fire: see section 5

## **11. TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 2,700 mg/kg Inhalation: Irritating to respiratory system. Dermal: No data available No data available

## Skin corrosion/irritation

No data available

Serious eye damage/eye irritation No data available

## Respiratory or skin sensitisation

May cause sensitisation by skin contact.

#### Germ cell mutagenicity No data available

#### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

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carcinogen or potential carcinogen by ACGIH.

- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available No data available

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.

#### Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

#### **Additional Information**

**RTECS:** Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available(Diazald®-N-methyl-13C)
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

## DOT (US)

UN number: 3224 Class: 4.1 Proper shipping name: Self-reactive solid type C (Self-reactive solid, sample) Poison Inhalation Hazard: No CA2002120014

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## IMDG

UN number: 3234 Class: 4.1 EMS-No: F-F, S-K Proper shipping name: SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED BAM/03/12

## ΙΑΤΑ

UN number: 3234 Class: 4.1 Proper shipping name: Self-reactive solid type C, temperature controlled IATA Passenger: Not permitted for transport IATA Cargo: Not permitted for transport A20

## **Further information**

Special competent authority approval required!

## 15. REGULATORY INFORMATION

## SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components		
Diazald®-N-methyl-13C	CAS-No. 60858-95-9	Revision Date
New Jersey Right To Know Components		
Diazald®-N-methyl-13C	CAS-No. 60858-95-9	Revision Date

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3.

H242	Heating may cause a fire.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### **Further information**

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## **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956 Version: 6.1

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