# SIGMA-ALDRICH

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# SAFETY DATA SHEET

Version 5.3 Revision Date 07/14/2014 Print Date 03/18/2015

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

JumpStart™ REDTag® DNA Polymerase Product name

Product Number

D8187

Sigma Brand

Relevant identified uses of the substance or mixture and uses advised against

: Laboratory chemicals, Manufacture of substances Identified uses

Details of the supplier of the safety data sheet

Company

: Sigma-Aldrich 3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832

+1 800-325-5052 Fax

Emergency telephone number

Emergency Phone # : (314) 776-6555

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

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

Signal word

Warning

Hazard statement(s)

Causes skin irritation.

H315 Causes serious eye irritation. H319 May cause respiratory irritation. H335

Precautionary statement(s)

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. P264

Use only outdoors or in a well-ventilated area. P271

Wear protective gloves/ eye protection/ face protection. P280 IF ON SKIN: Wash with plenty of soap and water.

P302 + P352 IF INHALED: Remove victim to fresh air and keep at rest in a position

P304 + P340

comfortable for breathing.

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

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

P305 P305 Sigma - D8187

Delivery 0850091309-000010 Purchase Order 8015EPI17Y

Page 1 of 7



Call a POISON CENTER or doctor/ physician if you feel unwell. P312 Specific treatment (see supplemental first aid instructions on this label). P321 If skin irritation occurs: Get medical advice/ attention. P332 + P313 If eye irritation persists: Get medical advice/ attention. P337 + P313 Take off contaminated clothing and wash before reuse. P362 Store in a well-ventilated place. Keep container tightly closed. P403 + P233 P405 Dispose of contents/ container to an approved waste disposal plant. P501

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Hazardous components	101 11-11-1	Concentration
Component	Classification	Concentration
Jumpstart taq DNA polymerase	150000000000000000000000000000000000000	
dumpstart tad DNA polymerase	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319,	
	H335	

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

#### 4. FIRST AID MEASURES

# 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 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.

# 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

Indication of any immediate medical attention and special treatment needed no data available

#### 5. FIREFIGHTING MEASURES

#### Extinguishing media

#### Suitable extinguishing media

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

# Special hazards arising from the substance or mixture

Nature of decomposition products not known.

#### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further information**

no data available

Page 2 of 7

Delivery 0850091309-000010 Purchase Order 8015EPI17Y

#### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13,

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2,2,

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20 ℃

#### 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.

#### 3.2 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

Safety glasses with side-shields conforming to EN166 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**

impervious clothing. 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 respirator with multipurpose combination (US) or type ABEK (EN 14387) 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

Do not let product enter drains.

Delivery 0850091309-000010 Purchase Order 8015EPI17Y

Sigma - D8187

#### a) Appearance Form: lies

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on	basic pt	nysical	and	chemi	ical	properties	ì
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a)	Appearance	Form: liquid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pН	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration 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
l)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available
0)	Partition coefficient: n- octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available

# t) Oxidizing properties9.2 Other safety information

s) Explosive properties

no data available

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

no data available

no data available

#### 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

Strong oxidizing agents

# 10.6 Hazardous decomposition products

Other decomposition products - no data available In the event of fire; see section 5

Sigma - D818

Page 3 of 7

Delivery 0850091309-000010 Purchase Order 8015EPI17Y

Page 4 of 7

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on loxicological effects

#### **Acute toxicity**

no data available

Inhalation: no data available 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

no data available

#### 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

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 identified as a

carcinogen or potential carcinogen by OSHA.

# 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.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

no data available

#### 12.2 Persistence and degradability

no data available

# no da: 00 12.3 Bload 00 no da: 00 No Bioaccumulative potential

no data available

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#### 12.4 Mobility in soil

no data available

#### 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**

Offer surplus and non-recyclable solutions to a licensed disposal company

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

#### 15. REGULATORY INFORMATION

#### SARA 302 Components

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

#### **SARA 313 Components**

SARA 313: 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

Chronic Health Hazard

# Massachusetts Right To Know Components

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

# Pennsylvania Right To Know Components

Jumpstart tag DNA polymerase

CAS-No. 1228200-50-7 Revision Date

New Jersey Right To Know Components

CAS-No. 1228200-50-7 Revision Date

Jumpstart tag DNA polymerase

# 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.

Eye Irrit-

Eye irritation

H315

Causes skin irritation.

H319 H335 Causes serious eye irritation.

Sigma - D8187

May cause respiratory irritation.

Page 5 of 7

Delivery 0850091309-000010 Purchase Order 8015EPI17Y

Page 6 of 7

Skin Irrit.
STOT SE
Skin Irritation
Specific target organ toxicity - single exposure

HMIS Rating
Health hazard:
Chronic Health Hazard:
Flammability:
Physical Hazard

O

NFPA Rating
Health hazard:
0

0

0

0

# Reactivity Hazard: Further information

Fire Hazard:

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#### Preparation Information

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

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