

## Safety Data Sheet (SDS)

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

Revision Date: Jun. 1, 2015

### Section1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

Product Name: ACE Kit - WST  
 Product Code: A502  
 CAS Number: -  
 EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: Dojindo Laboratories  
 Address: Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202, Japan  
 Telephone: +81-96-286-1515  
 Fax: +81-96-286-1525  
 Emergency phone number : +81-96-286-1515

#### 1.3 Product use

For research use only.

### Section2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]  
 Respiratory sensitisation, Category 1, 1A, 1B  
 Serious eye damage/eye irritation, Category 2  
 Skin corrosion/irritation, Category 2  
 Specific target organ toxicity – single exposure, Category 3

#### 2.2 Label elements

##### Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictogram:



Signal word: Danger

Hazard statement(s):

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  
 P264 Wash /hands/face/forearms/clothing thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/ face protection.  
 P285 In case of inadequate ventilation wear respiratory protection.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/ international regulations.

**2.3 Other hazards**  
None known.

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**Section3. COMPOSITION/INFORMATION ON INGREDIENTS**

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3.1 Product name: ACE Kit - WST

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**Section4. FIRST AID MEASURES**

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**4.1 Description of first aid measures**

If inhaled:	If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician.
If swallowed:	Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.
In case of skin contact:	Wash off with plenty of water. Remove contaminated clothing and launder before reuse.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

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

No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

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**Section5. FIRE-FIGHTING MEASURES**

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**5.1 Extinguishing media**

Use extinguishing media appropriate for the surrounding fire.

**5.2 Special hazards arising from the substance or mixture**

May emit toxic fumes under fire conditions.

**5.3 Special protective equipment for firefighters**

Wear self-contained breathing apparatus and full protective clothing if necessary.

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**Section6. ACCIDENTAL RELEASE MEASURES**

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

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing.

**6.2 Environmental precautions**

Prevent further leakage. Prevent contamination of drains with product.

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

Pick up and collect product in suitable container for disposal.

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**Section7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.

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

Keep tightly closed.  
Store in a cool (0-5°C), dark and dry place. Do not freeze.

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## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.

#### Personal protective equipment

##### Eye/face protection:

Wear safety glasses with side-shields conforming to European Standard EN166.

##### Hand protection:

Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected prior to use.

Avoid skin contact with product when remove gloves. Dispose of contaminated gloves safely after use.

##### Skin and body protection:

Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

##### Respiratory protection:

Wear suitable respiratory equipment in case of inadequate ventilation.

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## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Information on basic physical and chemical properties

a) Appearance:	
Substrate Buffer	Colorless liquid
Enzyme A	Lyophilized form
Enzyme B	Lyophilized form
Enzyme C	Lyophilized form
Coenzyme	Lyophilized form
Indicator Solution	Red liquid
b) Odor:	
Substrate Buffer	Odorless
Enzyme A	Odorless
Enzyme B	Odorless
Enzyme C	Odorless
Coenzyme	Odorless
Indicator Solution	Odorless
c) Odor Threshold:	No data available
d) pH:	
Substrate Buffer	7.8 - 8.0 (25°C)
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) Evaporation rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper / lower flammability or explosive limits:	No data available
k) Vapor pressure:	No data available
l) Vapor density:	No data available
m) Relative density:	No data available
n) Solubility(ies):	No data available
o) 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
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

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## Section 10. STABILITY AND REACTIVITY

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### Stability and reactivity

Reactivity:	Stable
Chemical stability:	Stable at a cool (0-5°C), dark and dry place.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Heat, sunlight, high temperature
Incompatible materials:	Strong oxidizing agents, strong acids and bases
Hazardous decomposition products:	No data available

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**Section 11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects**

- a) Acute toxicity: No data available  
b) Skin corrosion / irritation: No data available  
c) Serious eye damage/eye irritation: No data available  
d) Carcinogenicity:

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

- e) Reproductive toxicity: No data available  
f) STOT - SE: No data available  
g) STOT - RE: No data available  
h) Aspiration hazard: No data available

**11.2 Potential health effects**

- Ingestion: May be harmful if swallowed.  
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.  
Skin: May be harmful if absorbed through skin. Causes skin irritation.  
Eyes: Causes serious eye irritation.

**11.3 Additional Information**

No additional information is available

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**Section 12. ECOLOGICAL INFORMATION**

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**12.1 Ecotoxicity**

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

**12.5 Results of PBT and vPvB assessment**

No data available

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**Section 13. DISPOSAL CONSIDERATIONS**

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**Waste treatment methods****Product**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.

**Contaminated packaging**

Dispose of as unused product. Do not reuse empty containers.

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**Section 14. TRANSPORT INFORMATION**

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**14.1 UN number, Transport hazard class(es) and Packaging group**

	UN number	Transport hazard class(es)	Packaging group
ADR/RID:	-	-	-
IMDG:	-	-	-
IATA:	-	-	-

**14.2 UN proper shipping name**

ADR/RID:	-
IMDG:	-
IATA:	Not dangerous goods

**14.3 Environmental hazards**

ADR/RID:	No
IMDG:	No
IATA:	No

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**Section 15. REGULATORY INFORMATION**

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 [REACH], as amended by Commission Regulation (EU) No 453/2010.

**15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture**

No information available

**15.2 Chemical Safety Assessment**

No information available

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**Section 16. OTHER INFORMATION**

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**Key to abbreviations and acronyms**

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE:	Specific Target Organ Toxicity - Repeated Exposure
PBT:	Persistent Bioaccumulative and Toxic
vPvB:	very Persistent very Bioaccumulative and toxic
ADR:	European Agreement concerning the international carriage of Dangerous goods by Road
CAS:	Chemical Abstracts Service
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime code for Dangerous Goods
REACH:	Registration, Evaluation, Authorization and restriction of Chemicals
RID:	Regulations concerning the International transport of Dangerous goods by rail