

# บันทึกการเปลี่ยนแปลง (Control of Change Report)

DRS-SEO-F-45 : Rev 00

Ref.No. \_\_\_\_\_

Date 8 April 2014

<input checked="" type="checkbox"/> การเปลี่ยนแปลงภายในองค์กร/Internal of Change		<input type="checkbox"/> การเปลี่ยนแปลงภายนอกองค์กร /External of Change (For supplier)	
1 ชื่อหน่วยงาน/ผู้ขาย/หรือลูกค้า Section / Supplier name <u>แผนก Slitting</u>			
2 สินค้าที่มีการเปลี่ยนแปลง /Part name <u>ms16 PS 2000S ทดแทน TCE ในกรณีฉุกเฉิน DG-01</u>			
3 Classification of change (4 M) <input checked="" type="checkbox"/> Material <u>ใช้สารเคมี PS2000S (Alkali Solution) แทนสารเคมี TCE ในการล้างคราน้ำมัน</u> <input type="checkbox"/> Method <u>15/16 ขนาด กว้าง June 2012</u> <input type="checkbox"/> Machine _____ <input type="checkbox"/> Man _____ <input type="checkbox"/> Other _____		Explanation of change Ingredient, concentration, material Process, procedure, WIN, transportation Tool, mold, machine, measuring device New staff, temporary, outsource Design, first shipment, Etc.	
4 สาเหตุการเปลี่ยนแปลง / Reasonable of change <u>ใช้ในการล้างคราน้ำมันรีด ทดแทนสาร TCE (Trichloroethylene) ที่มีอันตราย เนื่องจากเป็นสารระเหย และเป็นตัวทำลายระบบแรง</u> <u>และเป็นสารที่ กอสม 9 ม ในท่อน้ำรั่ว, แฉก, ไม่ปลอดภัย</u> <u>รวมทั้ง แก๊สไฮโดรเจน ใน E.U. ใช้ตัวทดแทนที่มีชื่อตามข้อกำหนด ABACH.</u>			
5 ผลกระทบจากการเปลี่ยนแปลง / Evaluation of change Advantage of change <u>พนักงานทำงานภายใต้สภาพแวดล้อมที่ดีขึ้น ผลกระทบทางอากาศลดลง ลดความเสี่ยงที่จะเกิดสารเคมีตกค้างในร่างกาย</u> <u>ไม่พบผลกระทบด้านลบ / ข้อดีคือ ไม่เป็นอันตราย, ไม่ติดไฟ, ไม่เป็นพิษ, ไม่กัดกร่อน, ไม่เป็นมลพิษ, ไม่เป็นอันตรายต่อสุขภาพ</u> Disadvantage of change _____			
6 สรุปผลการพิจารณาการเปลี่ยนแปลง/Approval of Change สภาพแวดล้อมทางอากาศดีขึ้น (Signature) Reporter of change (Section/Supplier) Internal of change _Please identify section External of change _Please identify supplier		สำหรับผู้ดูแลระบบ QMS/EMS <input checked="" type="checkbox"/> Internal communication To <u>Safety, QC, DCC</u> <input checked="" type="checkbox"/> External communication To <u>ทุกแผนกที่เกี่ยวข้อง</u> (Signature) QMR/EMR <u>June 20/2</u>	
7 Communication Need (สำหรับผู้ดูแลระบบ QMS/EMS) <input checked="" type="checkbox"/> Internal Communication of Change    Reply to DCC <input type="checkbox"/> External Communication of Change    Reply to SPM			
<input type="checkbox"/> Acknowledge <input checked="" type="checkbox"/> ไม่มีผลกระทบ/No Effect <input type="checkbox"/> มีผลกระทบ /Effect to <u>ไม่กระทบ</u>		Customer name _____ <input type="checkbox"/> Acknowledge <input checked="" type="checkbox"/> ไม่มีผลกระทบ/No Effect <u>ไม่กระทบ</u> <input type="checkbox"/> มีผลกระทบ /Effect to (if) <u>ไม่กระทบ</u> <u>ไม่พบผลกระทบด้านลบ</u>	
ผู้ตอบ / Acknowledge by : _____ ตำแหน่ง /Position : <u>Safety Manager</u> ชื่อหน่วยงาน /Section/Dep : _____		ผู้ตอบ / Acknowledge by : _____ ตำแหน่ง /Position : <u>Safety Man.</u> Company name : <u>Siam Poongsan Metal. Co. /K.</u>	
กรุณาส่งเอกสารบันทึกนี้แก่ DCC เพื่อจัดเก็บบันทึก			

# Material Safety Data Sheet

Trade Name	PS 2000S
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## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name	PS 2000S
General Characteristics	Mixture of water and additives
Hazard Classification	Irritation
Application	Water soluble cleaning fluid
Manufacturer's Name & Address	KOREA ACADEMY CHEMICAL CO. Rm 1035, Ocean Tower, 760-3, Woo1-Dong, Haeundae-Gu, Busan, Korea TEL. +82-(0)51-740-6191~4 FAX +82-(0)51-740-6195
Supplier's Name	KOREA ACADEMY CHEMICAL CO.
Department	Quality Control Team.

## 2. HAZARD IDENTIFICATION

### Hazard Classification in Korea

Dermal Irritant Category 2  
Eye Irritation Category 2  
Acute Dermal  
Dermal  
Chronic and Aquatic

### GHS Pictogram.



### Signal Words

Warning

### Hazard statements

Causes skin  
Causes serious  
Harmful in  
May cause an  
Toxic to aquatic

### Precautionary statement

#### Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash your hands thoroughly after handling  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### Countermeasure

Call a POISON CENTER or doctor/physician if you feel unwell.  
Specific treatment(see...on this label).  
Wash contaminated clothing before reuse.  
Collect spillage.  
Take off contaminated clothing and wash before reuse  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention  
  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Storage

store locked up.

#### Disposal

Dispose of contents/container to a legal waste disposal waste disposal company

#### Other hazard

Repeated contact may result in dry skin trouble  
Liquid vapors may cause drowsiness and dizziness.

### Chronic Symptom

No data

### Carcinogenicity

No carcinogenicity  
Industrial Safety and Health Act(in Korea): Not defined  
Occupational Safety & Health Administration (OSHA): No  
National Toxicology Program (NTP): No  
International Agency for Research on Cancer (IARC): No

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity	CAS No.	Concentration (%)
Trisodium phosphate	7601-54-9	1-10
Triton BG-10	68515-73-1	1-10
Sodium gluconate	527-07-1	5 - 15
Potassium pyrophosphate anhydrous	7320-34-5	5-15
Secret	Secret	Secret
Water	7732-18-5	70-80

#### 4. FIRST AID MEASURES

##### Eye Contact

Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes.

Obtain medical attention immediately.

If the eye is bloodshot and the congestion maintains continuously, receive medical treatment.

##### Skin Contact

Wash the skin with soap and much water over 15 minutes.

Take off the polluted clothes and shoes immediately, receive medical treatment

If the irritation maintains on skin continuously, receive medical treatment.

##### Inhalation

Expose to fresh air. If not recovered, seek medical aid.

##### Ingestion

Prevent vomiting. If vomiting occurs, keep head below hips to prevent obstruction of the airway.

Immediately, receive medical treatment.

##### Advice to Physician

Wash the skin with soap and much water over 15 minutes.

if swallowed, consider stomach endoscopic examination

#### 5. FIRE-FIGHTING MEASURES

##### Extinguishing Media

Dry chemical, carbon dioxide, water, normal foam

##### Unsuitable Extinguishing Media

No data

##### Hazardous Substance Created during Burning

Toxic substances created (e.g. CO, SOx)

##### Extinguishing Method and Extinguisher

Shut off all sources of fuel if possible, and use water to cool fire-exposed materials.

Wear air respirator or antigas mask in an airtight room or if needed.

Use foam if exposed to heat or flame.

##### Act on Safety Management of Dangerous Goods

Not classified

#### 6. ACCIDENT RELEASE MEASURES

##### Human Body Protection Methods

Avoid inhalation and skin exposure.

Change pollutant clothes to new one.

Wear air respirator or ventilate the air in an airtight room.

##### Environment Protection Methods

Prevent water pollution.

##### Clean Up Methods

Collect exposed materials in a proper container to dispose them.

Use personal protective equipment as required

#### 7. HANDLING AND STORAGE

##### Handling

Prevent skin contact, vapor inhalation, and eye contact.

Remove/Take off immediately all contaminated clothing.

Use personal protective equipment as required.

##### Storage

Store the substance according to the current rules and regulations.

Store in a closed container

Store in a well-ventilated place.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Appropriate engineering controls

Install local exhaust ventilation systems.

	Check if the exposure is proper within the exposure criteria.
<b>Personal protection</b>	
<b>Respiratory Protection</b>	Respirator is needed if this liquid is frequently used or excessively exposed. Respirator shall be certified by Korea Occupational Safety & Health Agency.
<b>Eye Protection</b>	Wear face shield that enables wearing two safety goggles, which protect from scattering materials or harmful liquids. Install spray washing system for eyes and emergency washing system in the shower type near the work
<b>Hand Protection</b>	
<b>Body Protection</b>	Wear chemical-resistant protective clothing.

## 9. PHYSICAL AND CHEMICAL INFORMATION

Appearance	Blue liquid
Odor	Pungent
pH	11.0 ± 1.0
Melting Point	< - 5 °C
Boiling point	> 100 °C
Flash Point	No data
Oxidation	Stable in normal temperature and pressure
Flammability limits in air	No data
Explosion	Stable in normal temperature and pressure
Vapor Pressure	No data
Solubility in Water	Soluble in water
Vapor Density	No data
Specific Gravity	1.04 ± 0.05 (15/4 °C)
Distribution Coefficient	No data
Autoignition Temp.	No data
Dissolution Temp.	No data
Viscosity	No data
Molecular weight	No data

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable in normal temperature and pressure, and for normal usage
<b>Possibility of Hazardous Material Creation during Reaction</b>	Will not occur.
<b>Conditions &amp; Materials to Avoid</b>	All sources of ignition and excessive heat, and strong oxidants.
<b>Material created during Degradation</b>	Thermal decomposition product. Toxic carbon compounds may be included (e.g. CO, NOx).

## 11. TOXICOLOGICAL INFORMATION

<b>Urgent Risk &amp; Harmfulness Information</b>	
<b>Inhalation</b>	Inhalation of vapors may cause irritation of the respiratory tract and drowsiness, dizziness, headache
<b>Eye Contact</b>	May cause severe irritation.
<b>Skin Contact</b>	May cause irritation. Repeated contact may result in skin troubles
<b>Ingestion</b>	Ingestion may result in stomach problems or irritation.

<b>Toxicological Information</b>	
Acute Oral Toxicity	No data
Acute Dermal Toxicity	No data
Acute Inhalation Toxicity	No data
Dermal Irritability	Irritant
Subacute Toxicity	No data
Repeated Dose Toxicity	No data
Mutagenicity	N/A
Effect on Next Generation (Reproductive)	N/A
Carcinogenicity	No data
Additional Advice	No data

## 12. ECOLOGICAL INFORMATION

Additional ecological information

AOX-indication	The product does not contain organically bonded halogen compounds.
General notes	Do not allow product to reach ground water, water bodies or sewage system.

### 13. DISPOSAL CONSIDERATION

#### Regulations of Waste Management Act

Waste liquid with oil of over 5% is classified as specified wastes.

#### Disposal Method

No data

Dispose in a legal self-disposal system or through waste disposal company.

#### Caution for Disposal

Follow the detailed criteria of Wastes Control Act.

### 14. TRANSPORT INFORMATION

#### Classification and Regulation According to Ship Transportation and Storage Rule of Hazardous Material of Ship Safety Act

Not Regulated

#### Caution during Transport

No data

#### Classification and Regulation According to Rule of Transportation

Not Regulated for transport according to UN, IMDG, ADR/RID, IATA/ICAO

### 15. REGULATORY INFORMATION

Regulation According to the Substance N/A

Toxic Substance Control Act N/A

High-Pressure Gas Safety Control Act N/A

#### Regulation According to Foreign Laws

Act on Safety

Not applicable

#### Regulation According to Foreign Laws

CERCLA 103(40CFR302.4) : N/A

OSHA(29CFR1910.119) : N/A

SARA 302(40CFR355.30) : N/A

SARA 304(40CFR355.40) : N/A

SARA 313(40CFR372.65) : N/A

OSHA(29CFR1910.119) : N/A

### 16. OTHER INFORMATION

#### Source

Material's data of our laboratories, Korea Occupational Safety & Health Agency and raw material supplier

Written Date 19-Jan-12

Revision Count. Final Revision Date Rev. 1 19-Jan-12

#### Other References

The data and advice given apply when the product is sold for the stated application or applications.

The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us. If you have purchased the product for supply to a third party for use at work, it is your duty to take take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

Further copies of this Safety Data Sheet may be obtained from KOREA ACADEMY CHEMICAL CO. .