Kode Produk
354

PERTAMINA
Downstream Directorat – Marketing and Trading

Making date : September 06
Revision date : 19/09/2006

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTITY

PODUCT NAME : RORED EPA 140 PRODUSEN : PERTAMINA Jalan Perwira No. 4

Jakarta Pusat Kode Pos 10110

Phone: 021-3815509, Faximile: 3455344

Phone for Emergency Situation (24 hours) : 021-3816732 Phone for MSDS Information : 021-3815578

2. INGREDIENT COMPOSITION / INFORMATION

Chemical Name : Petroleum Hydrocarbon and additive

Hazardous ingredient :

This product does not contain any hazardous ingredient as the regulation from *European Union Dangerous Substances / Preparations Directive*. See point 15 for the regulation of ingredient analysis. See point 8 for the exposure limit (if any).

3. INTRODUCTION OF DANGER

Danger Standard Communication

Exposure effect : There is no significant impact on short time exposure. Long time exposure

can cause eyes irritation.

Emergency Data : Brown Liquid

4. FIRST AID REGULATION

Eye contact : rinse with water for 15 minutes minimum. If there is an eye irritation, please contact the

doctor.

Skin contact : wash the exposured skin with water and soap.

Inhaled : Supposed to be not caused any danger. Take the person to fresh air if there is any dangerous

effect

Swallowed : give 1 or 2 glass of water, contact the doctor, emergency room or danger supervison centre.

Don't give anything through the mouth that can cause vomit or sick.

5. FIRE HANDLING

Fire Extinguisher : Carbon dioxide, foam, dry chemical and water fog

Fire Extinguished Procedure : Water and foam can cause foaming. Splashing the container with water to keep the container cold. Do the splashing to remove the spill. Don't discard the spill to aqueduct, gutter, or

clean water source.

Special Protector Equipment : The fireman have to wear Self Contained Breathing Aparatus (SCBA)

Explosion and another fire danger : Toxic Fumes Flash point, °C : 204 (ASTM D-92)

Flammable limits – LEL : none

UEL : none

NFPA Hazard ID : Health : 0, Flammability : 1, Reactivity : 0 Hazardous Material Decomposition: Carbon monoxide. Metal Oxide. Another Oxide.

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6. SPILL AND LEAKAGE HANDLING

Procedure note : Report the spill happened according to system and procedure decided.

If the spill could be enter the aqueduct or river, please report to authority officer as soon as possible.

Leakage and Spill Procedure : Absorb the spill by saw-dust, clay, and another fire resistant material.

Clean up and discard to the location that have been decided.

Prevention on Environment : Prevent the spill entering the gutter, waste canal, and into the soil.

Prevention on Human being : see section 8.

7. HANDLING AND STORAGE

Handling : There is no special action. See section 8 for the the suggestion of wearing protection

equipement when handling this product.

Storage : Don't keep this product on open container or non-label container. Keep away from oxidator

or flammable material.

8. EXPOSURE CONTROL / SELF PROTECTION

Ventilation : Commonly there is no special regulation for ventilation on normal condition.

Breath Protection : There is no special regulation on normal condition.

Eye Protection : Use eye protection equipment.

Skin Protection : No need special equipment. Have to give a notice to regulation for personnel

hygiene.

Exposure limit : This product doesn't contain any material that have been known have exposure limit value. But we can use exposure limit value (Threshold limit value) from the vapor, i.e. 5.00 mg/m³.

9. PHYSICAL AND CHEMICAL DATA

No. SAE : 140

Kinematic Viscosity at 40°C, cSt : 429.6 (ASTM D-445)

100°C, cSt : 28.74 (ASTM D-445)

(ASTM D-2270) Viscosity Index 94 Specific Gravity, 15/4°C 0.9043 (ASTM D-4052) Colour ASTM L 1.5 (ASTM D-1500) Flash Point (COC), °C 238 (ASTM D-92) Pour Point, °C - 9 (ASTM D-97) Total Base Number, mgKOH/g (ASTM D-2896)

10. STABILITY AND REACTIVITY

Stability (thermal, light, etc) : Stable

Situation/condition have to avoid : High temperature Material have to avoid : Strong Oxide

Decomposition : Carbon monoxide. Metal Oxide. Another Oxide.

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1. TOXICOLOGY DATA					
TOXICOLOGY ACUTE					
Oral Toxicity (Rat) : Non-toxic (LD 50: higher than 2000 mg/kg) based on testing	g of				
similar material and component. Skin Toxicity (Rabbit): Non-toxic (LD 50: higher than 2000 mg/kg) based on testing	g of				
similar material and component.					
Inhale Toxicity : Non-toxic (LC 50: higher than 5 mg/l) based on testing of sin	nilar				
material and component. The vapor can cause irritation on mucous membrane and the top of breathing tube if inhaled for time.					
Eye Irritation (Rabbit) : Non-irritating (Draize score : higher than 6, lower than 15) based testing of similar material and component.	lon				
Skin Irritation (Rabbit) : Non-irritating (Primary Irritation Index : higher than 0.5, lower than based on testing of similar material and component.					
Another Toxicity Data : result of toxicology acute shows that there is no acute impact on breath, w tested by oil mist or vapor.	hen				
REPRODUCTION TOXICOLOGY There is no data that shows the product contain $>0.1~\%$ material that can impact the reproduction.					
KRONIK TOXICOLOGY There is no data that shows the product contain > 1 % material that can impact health.					
ANOTHER TOXICOLOGY DATA There is no data that shows the product contain $> 0.1 \%$ material that has mutagen and teratogenic property					

12. ECOLOGY INFORMATION

Impact and damage on environment:

Non-toxic ---- based on testing of similar material and component.

13. DISPOSAL CONSIDERATIONS

Not proven as hazardous material based on RCRA Regulation 40 CFR 261.

14. TRANSPORTATION INFORMATION

USA DOT : not-regulate by USA DOT RID/ADR : not-regulate by RID/ADR IMO : not-regulate by IMO IATA : not-regulate by IATA

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15. REGULATION INFORMATION

Based on U.S. Superfund Amendment and Reauthorization Act (SARA) this product doesn't contain *EXTREMELY HAZARDOUS* more than 1%.

SARA (311/312) REPORTABLE HAZARD CATEGORIES:

This product contains chemicals as follows:

CHEMICAL% -wtOlefin sulfide2.79%Alkenyl amine0.19%Substituted thiadiazole0.19%Isopropyl alcohol0.06%

16. ANOTHER INFORMATION

Product condition and product fitting on special application out of company guarantee; all of the using risk will be the user responsibility. User and officer that handling this product must have the warning and product handling procedur. It's forbidden to change this document, except with law legacy.

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