

Chemical Register

- Register of Chemicals Hazardous to Health
 - R phrases or H codes

SECTION B : LIST OF CHEMICALS HAZARDOUS CHEMICAL TO HEALTH

Location : <input type="text"/>				No. of Hazardous Chemical : <input type="text"/>				No. of Workers : Male : <input type="text"/>					
Process Operation : <input type="text"/>								Female : <input type="text"/>					
Product Name	Name of Chemical	Physical Form of Chemical	No. of Worker Exposed	Type of Control Measures		Usage Of Chemical		CAS No.	Name of Active Ingredient	Comply with Classification, Packaging and Labeling Regulations, 1977			Name, Address of Supplier and Contact Number (Tel. No. & email)
				Engineering Control	PPE	Type	Quantity ^{PP}			CSDS (Y/N)	Class	Label (Y/N)	

SECTION C : NAME OF PERSON WHO PREPARED OF REVIEWED

PREPARED BY : Name : <input type="text"/> Title : <input type="text"/> Date : <input type="text"/> _____ (Signature)	REVIEWED BY : Name : <input type="text"/> Title : <input type="text"/> Date : <input type="text"/> _____ (Signature)
---	---

Hazard Classification

Health Hazard

HAZARD CLASS

HAZARD CATEGORY

1. Acute toxicity (oral)	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5*
2. Acute toxicity (dermal)	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5*
3. Acute toxicity (inhalation)	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5*
4. Skin corrosion/irritation	Cat 1A/1B/1C (1)			Cat 2	Cat 3*
5. Serious eye damage/eye irritation	Cat 1	Cat 2			
6. Respiratory sensitisation	Cat 1				
7. Skin sensitisation	Cat 1				
8. Germ cell mutagenicity	Cat 1A/1B (1)		Cat 2		
9. Carcinogenicity	Cat 1A/1B (1)		Cat 2		
10. Reproductive toxicity	Cat 1A/1B (1)		Cat 2	Effect on or via lactation	
11. Specific target organ toxicity – single exposure	Cat 1	Cat 2	Cat 3		
12. Specific target organ toxicity – repeated exposure	Cat 1	Cat 2			
13. Aspiration hazard	Cat 1	Cat 2*			

 * not included in CLASS Regulations

Container Labels- CLASS 2013

Affixing and tagging of label: Regulation 12 (1),(2) & (3)

- ❖ If packaging is a container or contains another container :-
Label shall be firmly affixed to ≥ 1 surfaces of the packaging so that label can be read horizontally when the package is set down in its normal position.
- ❖ If the **container ≤ 125 ml**, the label shall be affixed in such manner deemed reasonable by the supplier
- ❖ When it is not practicable to label a hazardous chemical in view of the nature of the container, it shall be tagged with the label.



Example of CLASS Regulations Label

Product Identifier

UNLEADED GASOLINE-Premium Grade
PETROL TANPA PLUMBUM-GRED PREMIUM
Hydrocarbon (Hidrokarbon) > 99% Benzene (Benzena) < 1%



Hazard Pictogram

DANGER
BAHAYA

Signal Word

Hazard Statement

HAZARD STATEMENT
Extremely flammable liquid and vapour
Toxic if inhaled
Causes skin and eye irritation
Suspected of causing cancer (inhalation)

PERNYATAAN HAZARD
Cecair dan wap teramat mudah bakar
Toksik jika tersedut
Menyebabkan kerengsaan kulit dan mata
Disyaki menyebabkan kanser (tersedut)

Precautionary Statement

PRECAUTIONARY STATEMENT
Keep away from heat/sparks/open flames/hot surfaces-
No smoking.
Avoid breathing vapour.
Use only outdoors or in a well-ventilated area.
Wash hands thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read
and understood.

PERNYATAAN BERJAGA-JAGA
Jauhkan dari haba/percikan api/nyalaan
terbuka/permukaan panas-Dilarang merokok.
Elakkan daripada menyedut wap.
Gunakan hanya di luar bangunan atau di dalam kawasan
yang dialihudarkan dengan baik.
Basuh tangan bersih-bersih selepas mengendalikan
bahan.
Dapatkan arahan khas sebelum menggunakan bahan.
Jangan kendalikan bahan sehingga semua langkah
berjaga-jaga keselamatan telah dibaca dan difahami.

Supplier Identification

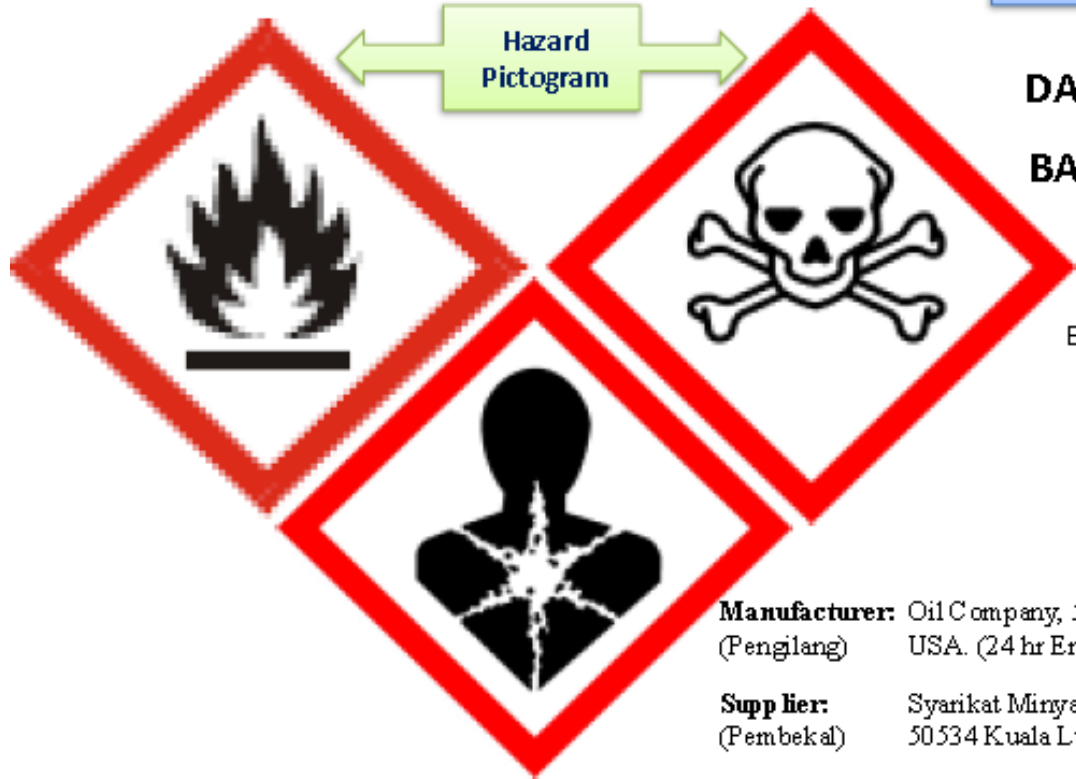
Manufacturer: Oil Company, 515 Touhy Avenue, Des Plaines, IL 60018
(Pengilang) USA. (24 hr Emergency Tel. No: 800 424-9300)
Supplier: Syarikat Minyak Petrol Sdn. Bhd., 1126K Jalan Kg. Attap,
(Pembekal) 50534 Kuala Lumpur (Tel : 03- 273 1234, 800-1234567)

Size ≤ 125 mL

Formaldehyde (CAS. No.:50-00-0)

Product Identification

Hazard Pictogram



DANGER
BAHAYA

Signal Word

Baca Helaian Data Keselamatan sebelum digunakan
Read Safety Data Sheet before use

Statement

Manufacturer: Oil Company, 515 Touhy Avenue, Des Plaines, IL 60018
(Pengilang) USA. (24 hr Emergency Tel. No: 800 424-9300)

Supplier: Syarikat Minyak Petrol Sdn Bhd., 1126K Jalan Kg. ...
(Pembekal) 50534 Kuala Lumpur (Tel: 03- 273 1234, 800-1234567)

Supplier Identification

100314

Asid hidroklorik berwap 37% amat tulen sesuai digunakan sebagai
eksipien **EMPROVE® exp Ph Eur, BP, JP, NF**

*Hydrochloric acid fuming 37% extra pure suitable for use as excipient
EMPROVE® exp Ph Eur, BP, JP, NF*

M

KATA ISYARAT (Signal Word)

=> Bahaya (*Danger*)

PERNYATAAN BAHAYA (HAZARD STATEMENTS):

- > Boleh mengakis logam (*May be corrosive to metals*)
- > Menyebabkan lecuran kulit dan kerosakan mata yang teruk (*Causes severe skin burns and eye damage*)
- > Boleh menyebabkan kerengsaan pernafasan (*May cause respiratory irritation*)

PERNYATAAN BERJAGA-JAGA (PRECAUTIONARY STATEMENTS):

- > Pakai sarung tangan pelindung/ pakaian pelindung/perlindungan mata/perlindungan muka. (*Wear protective gloves/ protective clothing/eye protection/face protection*)
- > **JIKA TERTELAN:** Berkumur. **JANGAN** paksa muntah. (*IF SWALLOWED: rinse mouth. Do NOT induce vomiting*)
- > **JIKA TERKENA MATA:** Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilaksanakan dengan mudah. Teruskan membilas. (*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*)
- > **JIKA terdedah atau jika anda rasa tidak sihat:** Hubungi **PUSAT RACUN** atau doktor/pakar perubatan. (*IF exposed or if you feel unwell: immediately call a POISON CENTER or doctor/ physician*)



Pembekal (Supplier):

Merck Sdn. Bhd. (Co. No: 178145)

No. 4, Jalan U1/26, Section U1,

Hicom Glenmarie Industrial Park,

40150 Shah Alam, Selangor.

Tel: 03-78824888

Fax: 03-78800792

Pengilang (Manufacturer):

Merck KGaA

64271 Darmstadt Germany

Tel: +496151 720



Information in SDS

1. Identification of hazardous chemical and of the supplier
2. Hazard identification
3. Composition and information of ingredients of hazardous chemical
4. First-aid measures
5. Fire-fighting measures
6. Accidental release measures
7. Handling and storage
8. Exposure controls and personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal information
14. Transportation information
15. Regulatory information
16. Other information

Legal Requirements: PPE

- Factories And Machinery (Safety, Health And Welfare Regulation, 1970
 - Regulation 32
 - Clothing
 - Safety helmets
 - Gloves
 - Eye protection
- OSHA:1994 (USECHH) Regulations 2000
 - PART V - Action To Control Exposure
 - 16. (1) Approved personal protective equipment shall be used

PPE Program

The employer shall establish and implement procedures on:

- Issuance
- Maintenance
- Inspection
- Training

PPE Issuance

Guidelines on the Use of PPE Against Chemical Hazards

APPENDIX 3: EMPLOYEES PPE ISSUANCE RECORD FORMAT

Name: _____ Department: _____
Staff No: _____ Date join department: _____
NRIC No: _____ Position: _____

PPE type	Date issued	*Date inspection/ reissue	*Date inspection/ reissue	*Date inspection/ reissue	*Date inspection/ reissue	*Date inspection/ reissue	Receiver initials
1.Safety helmet							
2.Safety goggles							
3.Safety spectacles							
4.Face shields							
5.Toxic gas respirator							
6.Dust mask							
7.Breathing apparatus							
8.Chemical gloves							
9.Coverall							
10.Chemical suit							
11.Safety shoes/ boot							

**Strikethrough wherever applicable*

Fit Testing

- Qualitative
 - Irritant smoke (stannic chloride)
 - Isoamyl acetate (banana oil)
 - Saccharin
 - Bitrex (bitter taste)
 - *Employees should perform a user seal check each time they put on a tight-fitting respirator*
- Quantitative
 - Portacount



Maintenance and Storage Procedures



- Disposable filtering face-piece:
 - Dispose after use
- Half-mask:
 - Write expiration date (current date +estimate) making sure to keep entire label legible
 - Discard cartridges based on expiration date, end-of-service life indicator or calculated service life
 - Clean
 - Dry
 - Place in sealable bag (write your name on bag)
 - Contact Safety Office for repairs

Maintenance and Storage Procedures

- Exclusive use of an employee:
 - Clean and disinfect as often as necessary to be maintained in a sanitary condition.
 - Discard cartridges based on expiration date, end-of-service life indicator or calculated service life.
- Respirators issued to more than one employee or maintained for emergency use:
 - Clean and disinfect before worn by different individuals or after each use.
- Respirators used in fit testing and training:
 - Clean and disinfect after each use
- All respirators *must* be stored in clean, dry bags

Medical Surveillance

Guidelines on the Use of PPE Against Chemical Hazards

APPENDIX 2: RESPIRATOR MEDICAL EVALUATION QUESTIONNAIRE

To the employer: Answers to questions in Section 1, and to question 9 in Section 2 of Part A, do not require a medical examination.

To the employee: Can you read (circle one): Yes / No

Your employer must allow you to answer this questionnaire during normal working hours, or at a time and place that is convenient to you. To maintain your confidentiality, your employer or supervisor must not look at or review your answers, and your employer must tell you how to deliver or send this questionnaire to the health care professional who will review it.

Part A. Section 1. (Mandatory) The following information must be provided by every employee who has been selected to use any type of respirator (please print).

1. Today's date: _____

2. Your name: _____

3. Your age (to nearest year): _____

4. Sex (circle one): Male/Female

5. Your height: ____ m.

6. Your weight: ____ kg.

7. Your job title: _____

8. A phone number where you can be reached by the health care professional who reviews

Labelling & Re-labelling Chemical Hazardous to Health

Part VI, Regulation 20 & 21

- Duty of employer to ensure labeling of all chemical hazardous to health used in the workplace.
- Re-labeling :
 - when the existing label are removed, defaced, modified or altered
 - when chemical being transferred to another container
 - If used immediately - no label is required

Providing Information, Instruction & Training

Regulation 22(3)(4)

- Provide information, instruction and training on:
 - risk to health created by such exposure
 - precaution to be taken
 - results of any monitoring of exposure
 - Collective results of any health surveillance
- Review
 - at least once in 2 years
 - changes in hazard information, safe work, practices or control measures
 - each time employees are assigned to new tasks or work area

Posting Warning Sign

Part X1, Regulation 29

- Posted at a conspicuous place at every entrance to working area
- give warning of the hazard
- written in National and English languages
- printed in dark red against white background

