

## **Chemical Safety** Basic Rules of Chemical Safety





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Hazardous chemicals are used in a wide variety of human operations and activities.

Our Chemical Safety Program addresses proper use, handling and storage of these materials.

## **Outlines**

- Chemicals helpful BUT harmful.
- Hazards materials.
- Hazards materials categories.
- Basic rules of chemical safety.
- Identification systems for the hazards materials.
- Material safety data sheets (MSDS).
- Chemical tracking system.
- Chemicals life cycle.
- Safety recommendations.

#### - Chemicals Safety

Use, handling, storage and disposing of hazardous chemicals.

#### - Biological Safety

Use of biological agents such as human, animal and plant pathogens; human blood and blood components; recombinant/synthetic nucleic acids; cell and tissue cultures; etc. in addition to the receipt, possession, use, and transfer of biological materials.

#### - Facilities and Construction Safety

Guidelines for construction and renovation for good health and safety practices, even for small construction or renovation projects.

#### - Fire Safety

The fire safety includes building evacuation, fire prevention methods and the use of portable extinguishers.

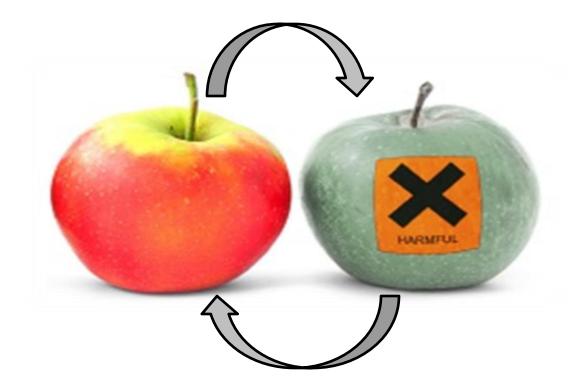
#### - Radiation Safety

The use of sources of radiation in various teaching, research, and operating activities.

## **Chemicals – Helpful & Harmful**



### Helpful chemicals could be Harmful, and vice versa



Depending on how they are controlled, handled and disposed; chemicals could be helpful or harmful

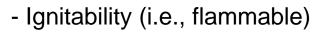
## **Basic Rules of Chemical Safety**



## **Hazards Materials**

Any substance or compound that has the capability of producing adverse effects on the health and safety of humans. These are materials could result in personal injury, death, or other losses (including asset and structure losses).

Characteristic hazardous wastes are materials that are known or tested to exhibit one or more of the following four hazardous traits:



- Reactivity (explosions)
- Corrosivity
- Toxicity



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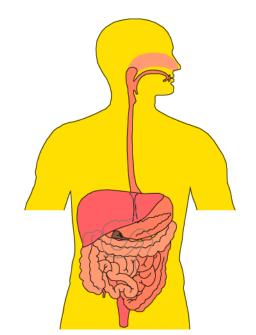
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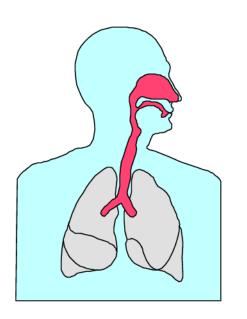
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Ways that hazardous materials can enter the body:

- Inhalation; through breathing, most rapid way.
- Absorption; through touching skin or eyes.
- Ingestion; swallowing.
- Injection; penetrating skin.

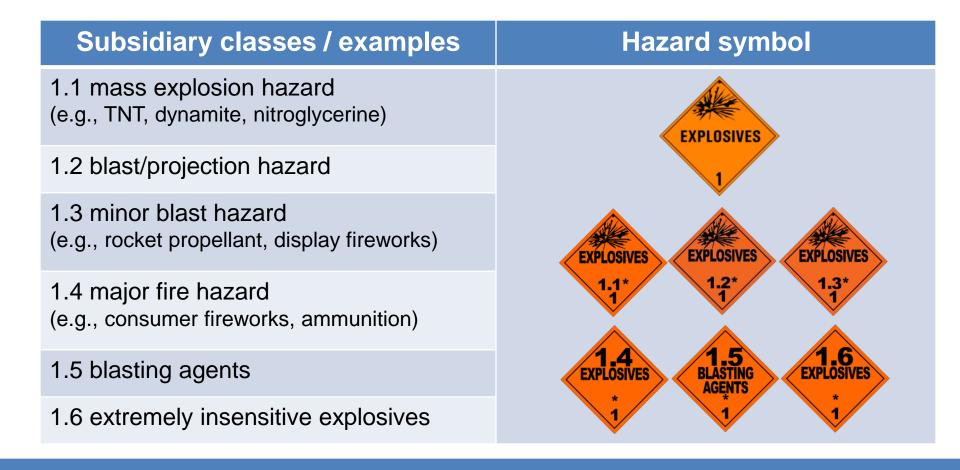






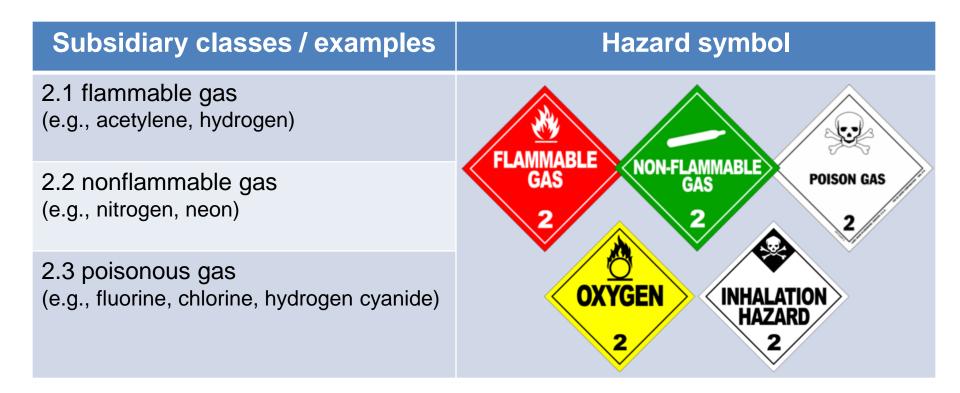
## **Hazardous Materials Classes**

Hazard Class 1 Explosives



### Hazard Class 2 Gases

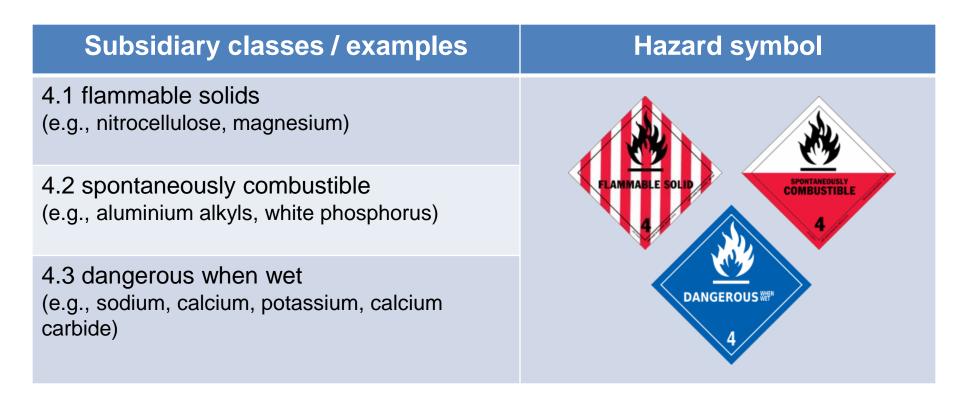
(compressed, liquefied or dissolved under pressure)



### Hazard Class 3 Flammable Liquids

Subsidiary classes / examples	Hazard symbol
Packing Group I b.p. less than 35°C, any f.p. (e.g., diethyl ether or carbon disulfide)	EL AMMARI E
Packing Group II b.p. greater than 35°C, f.p. less than 23°C (e.g., gasoline, acetone)	3
Packing Group III Packing Group I or II are not met, (e.g., such as kerosene, diesel)	COMBUSTIBLE FUEL OIL GASOLINE 3 3 3 3

### Hazard Class 4 Flammable Solids



### Hazard Class 5 Oxidizers and Organic Peroxides

Subsidiary classes / examples	Hazard symbol
5.1 oxidizer (e.g., calcium hypochlorite, ammonium nitrate, hydrogen peroxide, potassium permanganate)	OXIDIZER ORGANIC PEROXIDE
5.2 organic peroxide (e.g., benzoyl peroxides, cumene hydroperoxide)	5.1 5.2

## Hazard Class 6 Toxic Materials

Subsidiary classes / examples	Hazard symbol
6.1 poison (e.g., potassium cyanide, mercuric chloride, pesticides, methylene chloride)	
<ul> <li>6.2 infectious agents (biohazard)</li> <li>(e.g., virus cultures, pathology specimens, used intravenous needles)</li> <li>-Category A: Infectious affecting humans and animals (capable of causing permanent disability or life-threatening or fatal disease).</li> <li>-Category B: Infectious affecting animals only (generally not capable of causing permanent disability of life-threatening or fatal disease).</li> <li>-Category C: Biological substance transported for diagnostic or investigative purposes</li> <li>-Regulated Medical Waste: waste or reusable material derived from medical treatment of an animal or human, or from biomedical research.</li> </ul>	

### Hazard Class 7 Radioactive Materials

Subsidiary classes / examples	Hazard symbol
Radioactive I, II and III (e.g., uranium, plutonium)	RADIOACTIVE II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

### Hazard Class 8 Corrosive Materials

(destruction of the human skin, corrode steel and certain metals)

Subsidiary classes / examples	Hazard symbol
8.1 acids (e.g., sulfuric acid, hydrochloric acid)	118 M 118 211
8.2 alkalis (e.g., potassium hydroxide, sodium hydroxide)	CORROSIVE 8

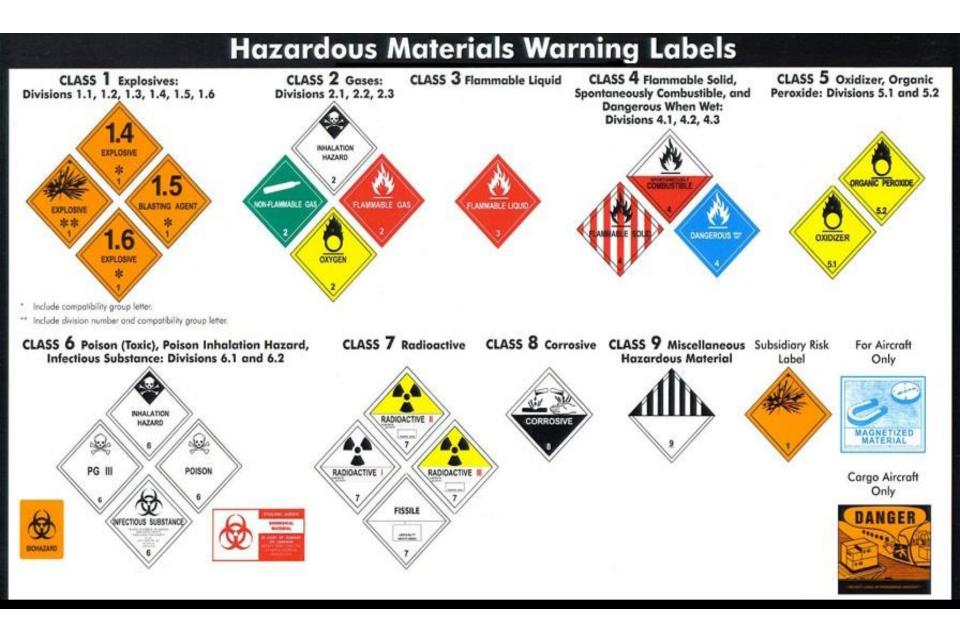
### Hazard Class 9 Miscellaneous

### Subsidiary classes / examples

#### Hazard symbol

Do not fall into the other categories (e.g., asbestos, air-bag inflators, self inflating life rafts, dry ice)





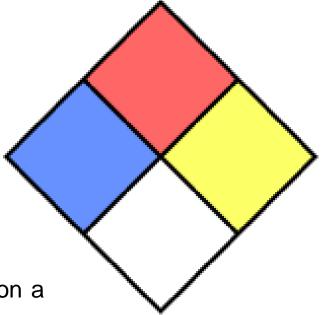
### Standard System for the Identification of the Hazards Materials for Emergency Response

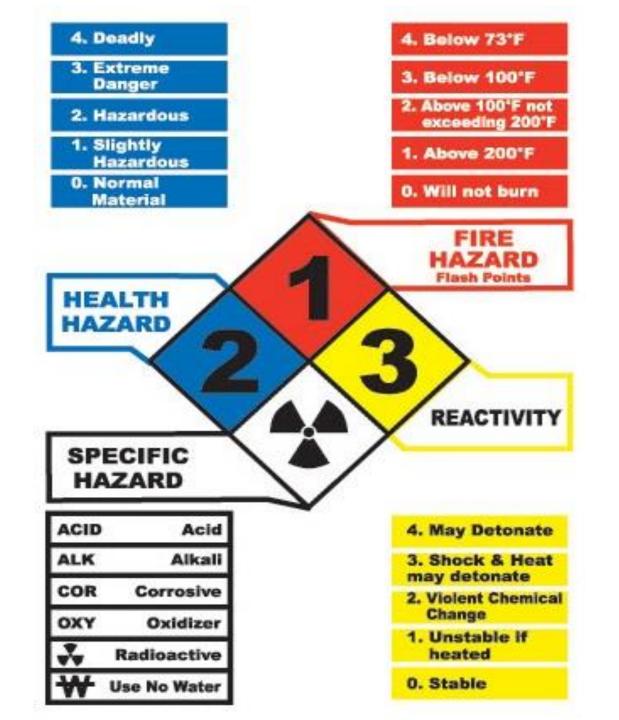
NFPA 704 National Fire Protection Association

**Fire diamond** used by emergency personnel to quickly and easily identify the risks posed by hazardous materials.

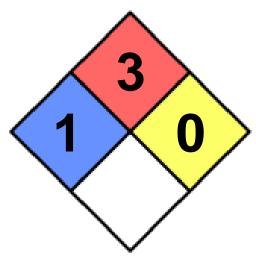
The four divisions are typically color-coded with -red indicating flammability, -blue indicating level of health hazard, -yellow for chemical reactivity, and -white containing codes for special hazards.

Each of health, flammability and reactivity is rated on a scale from 0 (no hazard) to 4 (severe risk).





#### Example: Acetone fire diamond





#### Flammability code 3

Ignited under almost all ambient temperature conditions. Flash point between 23 and 38 °C

#### Health code 1

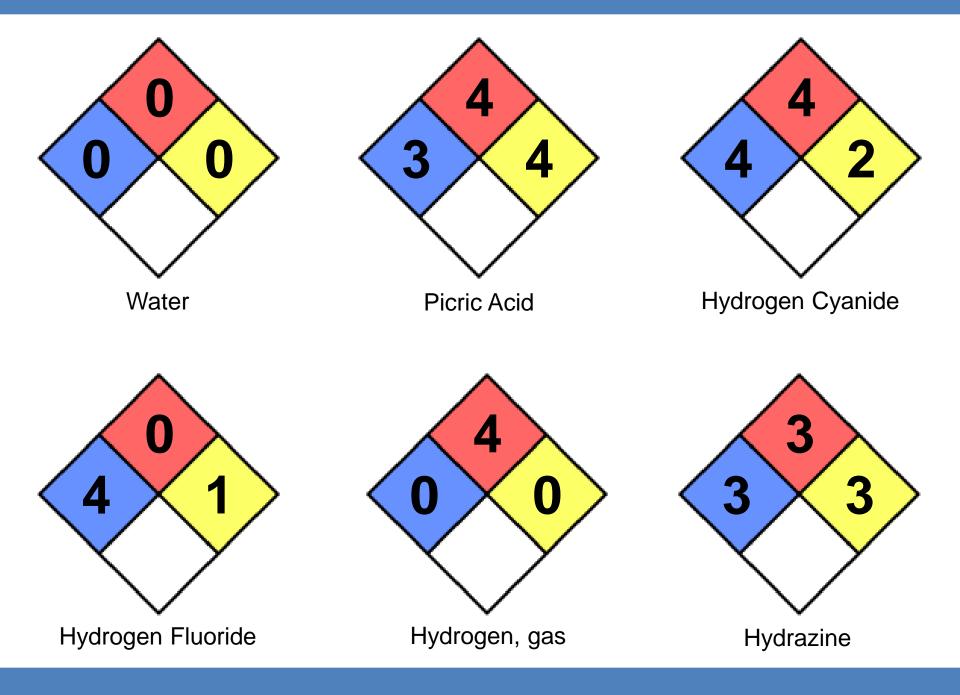
#### Exposure would cause irritation but only minor residual injury

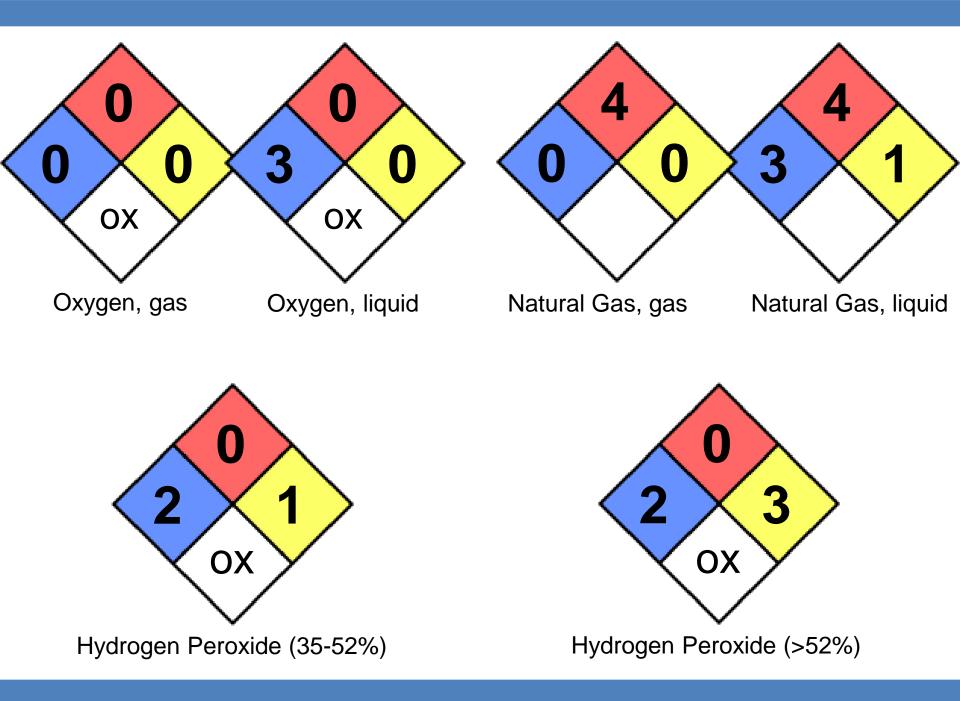
#### **Reactivity code 0**

Normally stable, even under fire exposure conditions and is not reactive with water

### Special hazards

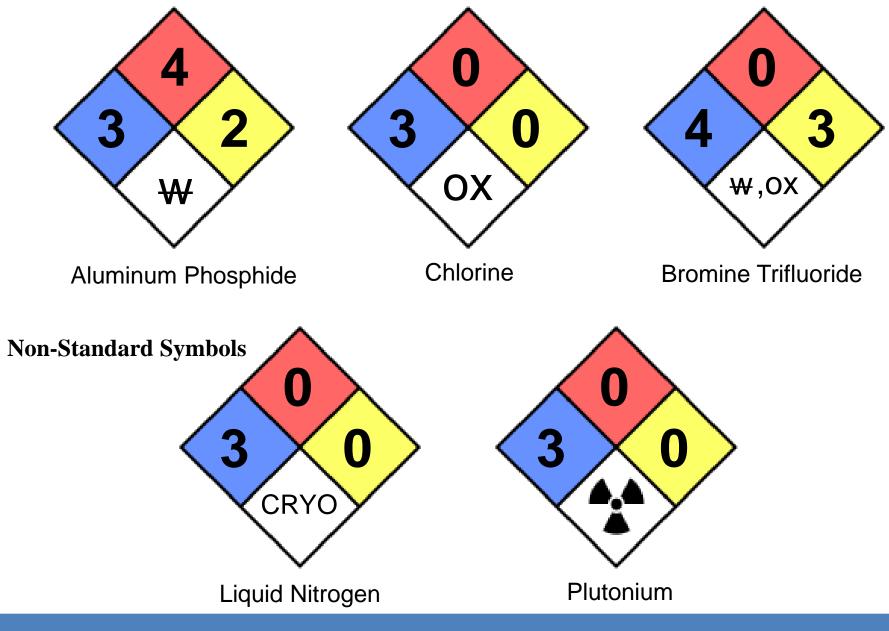
No code





#### **Special hazards notice (white)**

#### **Standard Symbols**



## Material Safety Data Sheet (MSDS)

MSDS is an important component of product stewardship and occupational safety and health. MSDS is a detailed fact sheet summarizing information about a chemical's hazardous ingredients.

Occupational safety and health documents used MSDS to describe a products ingredients, what they are, are they hazardous, how to store them, reactivity, storage, disposal, toxicity, health affects, what should be done if there is an accident, regulatory issues, fire hazards, emergency procedures and first aid etc.



Vendors have to undertake manufacturing, distribution, use and disposal of hazardous materials and chemicals to complete these documents. The objective of an MSDS is to concisely inform you about the hazards of the materials you work with so that you can protect yourself and respond to emergency situations.

MSDS formats can vary from source to source within a country depending on national requirements.

MSDS includes the following information:

**SECTION 1** - product and company identification **SECTION 2** - composition and information on ingredients **SECTION 3** - hazards identification including emergency overview **SECTION 4** - first aid measures **SECTION 5** - firefighting measures **SECTION 6 -** accidental release measures **SECTION 7** - handling and storage **SECTION 8** - exposure controls and personal protection **SECTION 9** - physical and chemical properties **SECTION 10 -** stability and reactivity data **SECTION 11 - toxicological information SECTION 12 -** ecological information **SECTION 13 -** disposal considerations **SECTION 14 - transport information SECTION 15 -** regulatory information **SECTION 16** - other information

Sections 12-15 may be included in the SDS, but are not required by OSHA.

### Example – Gasoline (bp Corporation)

:	SAFETY DATA SHEET bp	3. Hazards identification	6. Accidental release measures	ethyl teri-bulyl ether ACOBH TLV (United States, 32004). TWA 5 ppm 8 hour(s).
	Ö	This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted. Physicaliohemical hazards Extremely fammable.	Perconal preceditors Immediately contact emergency personnel. Eliminate all galition sources. Keep unnecessary personnel away. Use sublate protective equipment (like Bedicin: "Exposure controllegismonal protection). Policiv all Tre (galiting procedums (des Bedicin: "Fine-digfing management). Dio nd touch walk Through spilled	Where there are to regulatory exposure links, for information and guidance, the ACOIH values are included. For further thromation on these bases consulty our augnitic. Whits specific OBLs for relativic components are included in the IBOL, it should be noted that diter components of the preparation will be present in any mick vapour or due phradeod. For this mansor, the specific CLE, many rold be applicable to the product and are provided for
4 Identification of the substan	ance/preparation and company/undertaking	Human health hazards Initialing to alkn. May cause anaxor. Contains Benzane. Prokinged or repealed exposure to benzene can cause anaemia and other blood measure in benzene in benzene.	material. Environmental precautions and clean us methods be used in the absence of other subthin material. For small spille add absorbent (soil may be used in the absence of other subthin material) and use a non-scattling or excision proof many to	
Product name BP Unle	leaded Petrol, BP Ultimate Unleaded, BP Premium 95, LR 50	Mar cases amone. Or example of the second s	natural. Environmental presedutors and datas opinethols to used in the alexance of other walkately manufaction, contain spiller material. For small spits add alexance (spit) may be used in the alexance of other walkately manufaction and an anon-particle or material to be teredent material to a search comprised automate the down of the transpit add and alexance to teredent material to a search comprised and the transpit add and the transpit add and the transpit add appropriate container for down of the transpit add and the transpit add add and the transpit add and the transpit add and the transpit add and the transpit add add add add add add add add add ad	point process Oxform Advances Oxform Oxfo
8D8 no. SUK2103 Product use Use only as	as a motor fuel for spark ignition engines. NOT for aviation use. Should NOT be used as a	Vapours may cause drowsiness and disziness. Environmental hazards Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	sufface waterways. Personal protection in case of 5 planting orgins. Full Botts. Cloves. Suggested protective clothing might not be sufficient; consult a a large-split specialize BEFORE handling his product.	substitution, general verifiation, containment, systems of work, changing the process or activity) that must be considered before use of personal profestive equipment. Personal protective equipment should content to accordiate actachatics be sublished rule. The kert is noted workform and recently activity of the submitted of the sublished of the sublished of the sublished of the sublished of the sub- stance of the sublished
representat	or cleaning agent. Tic application advice see appropriate Technical Data Sheet or consult our company alive.	Enrous and symptoms Enrous No significant health hazards identified.	a target open over the section 8 for personal protective equipment and section 13 for waste disposal.	Incomparison of the second sec
Synonyms Motor gasol Ultimate Ur ULSP, Ultr	soline, Unleaded gasoline, Unleaded petrol Unleaded Tha Low Sulphur Petrol, PUSD, Premium unleaded 50, Premium Unleaded, Unleaded 95, remium Unleaded Motor Spirit), 95 Octane (RON), National Premium Unleaded, Cleaner	Skin     Causes skin intlation. Containe material which can cause accere. Containe material which can cause     herballe gender defas. Contain material which may cause and thin defast base of a minut data.     Inhatation     Contains material which can cause cancer. Contains material which may cause and cause herballe gender effects.     Contains material which can cause the defast.	7. Handling and storage	Bootstaatig for the standard water water in the trade of the standard water and the standard water of the stan
ULMS (Pre Unleaded, Super Unle	remum Unleaded Motor Spirit), 95 Ottaine (RON), National Premium Unleaded, Cleaner ( ileaded Gasoline - SUSD, Super Unleaded Motor Spirit 50, Super Plus Unleaded, Super Plus, ileaded, SUMB (Super Unleaded Motor Spirit), 97 Octare (RON). Jacement Plevici, LRP, Lead-Free Four Stark, IR 50.	Contains material which can cause bith defects. Ingection Aspiration hazard if swallowed – harmful or fatal if liquid is aspirated into lungs.	Handling Use only with adequate wortflation. Keep away from heat, sparia and fame. To exorb for one potention, designed relative electricity during transfer by earthing and bording contained before transferring material. Use explainance electrical preclaiming (gifting and material handling) equipment. Avoid control of splited material and nuroff with on land surface watereave. Wash thoroughly effer	The above information is provided to assist the outsomer in conducting its own assessment of risk to the health and safety of workers for the substance or preparation, and protection of the environment.
SuperUnie Lead Repla	leaded, SUMS (Super Unleaded Motor Spirit), 97 Octane (RON). Jacement Petrol, LRP, Lead-Free Four Star, LR 50. C Limited	First-aid measures     In case of contact with eves, rinse immediately with a cocicus amount of water. Out medical attention if	handling. Never siphon by mouth.	Process instances and manage composition and before easing, emoting, and as the end of day.
Bupplier BF Oil UK Witan Gate 50-4601 Wi Contrail Mit MV0 1E5	de House Witan Gade Bion Kevnes	initiation occurs.	Storage Store in a segregated and approved area. Keep container in a col, well-vertifiated area. Keep container Sighty closed and sealed unt ready for use. Avoid all possible sources of prillion (spark or flame). Store and use only in equipment/containers designed for use with this product. Do not remove warning labels from containers.	Respiratory system         Ensure aport vertilition.           Line of Institution vertilition, war subtitie negistatory explorent.         Approximation of the system.           Approximation of the system.         Approximation of the system.           Approximation of the system.         Approximation of the system.
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EMERGENCY TELEPHONE +44 (0) 190 NUMBER	008 853000		people standing by outside the tank with appropriate breathing apparatus and equipment to effect a quick resource.	Is we expense concentration). Provided and we distinguishes control of the second seco
2. Composition/information on	n ingredients	Intelligent of the second seco	install. Light hydroadon vapours on huld up in the headpaper of tarks. These can cause tarmal/bighteriotics instands even at therpeature also have a mortal faile part (but fails point must headpaper solution). The set of the set headpaper solution also and explore source and gring the guidange and setting them to add static entropic and all grings how come and gring the guidange that any setting there are solutions when the points aux end of a gring finds guidange and setting there are solutions when the points a sum day of a gring finds guidange and setting there are solutions when the points are solutions and a gring finds guidange and setting there are solutions.	Respiration protections explanear transit as indexide to invesse 1.8 to compare yeads there is seen. Air-Referring Respirations, also also also also also also also also
A complex mixture of volatile hydrocarbons contain C4 and C12. May contain oxygenates. May also o Chemical name	n ingredients aining seaffra, high here, ulefns and aromatics with calcon numbers predominantly between contain small quantities of proprietary performance address. CA& no. % EINECS / ELINCS. Classification	tegedion	electricial decharge and all griftion sources during filling, utaging and sampling from storage tarks. When the product is pumped (e.g. during filling, discharge or utaging) and when sampling, there is a risk of static discharge, in Enume equipment used is properly arethed or bonded to the tark structure.	
Gasoline	86290-81-5 80-100 289-220-8 F+; R12 Cerc. Cet. 2 R45	Notes to previousing intervention of generation are symptomical and controls to reverse any retrock. Product can be applied on evaluation of following regulation of stronach contents, and can assue severe and potentially stat chemical pneumontis, which will require uppert treatment. Because of the risk of	When the spinular parameter is a during time, developing or alloging use when samples the spinular spi	Bkin and body Avoid contact with with. Coltron or powhere income the second se
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	Xi, Rd8 R67 N; R5153	5. Fire-fighting measures Extinguishing media	Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers.	Recommended Grows nade flow 10 more comparable material mesharat to indications.     Protochine glows will destincate over time use to bypiscial and charalled angular, target and replace     glows on a mgular task. The frequency of replacement will depend upon the circumstances of use.     Burled glasses with use its hinks.
Benzene	71-43-2 0.1-1 200-753-7 F; R11	Suitable In case of fire, use foam, dry chemical or carbon dixide extinguisher or spray.     Not suitable Do not use water jet.	8. Exposure controls/personal protection	
	71-43-2 0.1-1 200-753-7 F; R11 Circ: Cat 1; R45 Mate Cat 2; R46 1; R4620242/3 X R85	Hazardous decomposition These products are carbon mides (CO, CO), products	Ingredient name Cocupational exposure limbs Gasoline ACOHHTLV (United States, 6/2004). 8TEL: 1480 mg/m <sup>2</sup> , 15 minute(s).	9. Physical and chemical properties Fisch point <-40 °C (Closed cup) Pensky-Martens.
	Xin, Hells Xi, Robits	confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may	5751400 ppm) * 5 minutes), 1875000 ppm * 5 minutes), 1875000 ppm * 5 minutes) TVV500 ppm * 10 runsi) TVV500 ppm * 10 runsi) Bertanne Detective000 ppm * 10 runsi	Explodion Imits Lower 0.6 % Upper 6 % Colour Velow (Lpt )
Toluene	108-88-3 5 - 30 203425-9 F; R11 Rep: Cat. 3; R83 Xx: R4820; R85 Xi; R83 H87	Special first-fighting processor in the standard	Benzene EH46-WEL (United Kingdom (UK), 12006), 3Mn TWA: 1 gam 8 hour(s), Toluene EH46-VEL (United Kingdom (UR), 12006), 3Mn	
	20, PC38 P667	Protection of fire-fighters Pire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.	Toluare 2004 (London Fundamic State Control Co	Boiling point / range 30 to 210 °C Denoty 720 to 775 kg/m² (0.72 to 0.775 g/m²) at 15°C
teri-butyi methyi ether	1634-04-4 0 - 15 216-853-1 F; R11 XI; R38		tert-butyl methyl ether EH40-WEL (United Kingdom (UR), 1/2006).	Properties data         Lipsid           Besting purch range         D/DL 210           Density         220 to 775 guint) for 21 to 275 guint) at 51°C           Vapour density (Lipsid)         13 to 14           Vapour density (Lipsid)         450 to 100 FM (2014 to 775 guint) at 51°C           Solvatting         Participation in the state
See section 16 for the full text of the R-phrases de Occupational exposure limits, if available, are liste			STEL_75 ppm 15 minute(s), TWA: 52 mg/m 8 hour(s), TWA: 52 pm 8 hour(s),	Bolubitty Partially soluble in water. LogK_ The product is more soluble in octanol; log(octanol/water)>3
Product name BP Unleaded Petrol, BP U 95, LR 50	PUttimate Unleaded, BP Premium Product code SUR2103 Page: 1/7	Product name BP Unleaded Petrol, BP Ultimate Unleaded, BP Premium Product code: SUK2103 Page: 27 05, LR 50	Product name BP Unleaded Petrol, BP Ultimate Unleaded, BP Premium Product code SUIQ103 Page: 37 95, LP 50	Product name BP Unleaded Petrol, BP Ultimate Unleaded, BP Premium Product code SUK2103 Page: 47 05, LR 50
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### Example – Gasoline (PETRO-CANADA)

Materi	GASOLINE, UNLEADED	GASOLINE, UNLE 2. Hazard Skin
1. Product and c	ompany identification	Eyes Potential chronic
Product name	GASOLINE, UNLEADED	Chronic effects
Synonym	: Regular, Unleaded Gasoline (US Grade), Mid-Grade, Plus, Super, WinterGas, SummerGas, Supreme, SuperClean WinterGas, RegularClean, PlusClean, Premium, marked or dyed gasoline, TCPUL, transitional quality regular unleaded, BOB, Blendst for Oxygenate Blending, Conventional Gasoline.	ck Carcinogenicity
	W102E, SAP: 102 to 117	Mutagenicity
Material uses	<ul> <li>Unleaded gasoline is used in spark ignition engines including motor vehicles, inboard outboard boat engines, small engines such as chain saws and lawn mowers, and recreational vehicles.</li> </ul>	Developmental e
Manufacturer	: PETRIC-CANADA P.O. Box 2844 150 – 6th Avenue South-West Calgary, Alberta 129 353	Fertility effects Medical condition aggravated by ove exposure See toxicological
In case of emergency	<ul> <li>Petro-Canada: 403-296-3000 Canutec Transportation: 613-996-6666 Poison Control Centre: Consult local telephone directory for emergency number(s).</li> </ul>	3. Compo
2. Hazards identi		Gasolne
Physical state	Clear liquid.	Toluene Benzene
Odor	Gasoline	Ethanol
WHMIS (Canada)	<b>0</b>	"Montreal: may var "Edmonton: may va
	Class B-2: Flammable Ilquid Class D-24: Material causing other toxic effects (Very toxic). Class D-28: Material causing other toxic effects (Toxic).	There are no add! concentrations ap this section.
OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>	4. First a
Emergency overview	: WARNING!	Eye contact
	FLAMMABLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, EYE AND SI IRRITATION. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. CONTAINS MATERIAL WHICH MAY CAUSE HERITABLE GENETIC EFFECTS.	3N Skin contact
	Farmable liquid, initialing to eyes, respiratory system and skin. Keep away from here garats and farm, anvid exposive - orain special instructions before use. Do not breather vapor or misd. Avoid exposive - orain special instructions and the orain a material which can cause cause - Risk of cancer depends on diraction and level of exposure. Contains material which may cause heritable genetic effects. Use only with adequate horoughly after handing.	Inhalation
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.	Ingestion
Potential acute health effects	. Service services, cyc contast, miniatori, mycocon,	
Inhalation	: Inhalation of this product may cause respiratory tract irritation. Inhalation of this product may cause respiratory tract irritation and Central Nervous System (CNS) Depression, symptoms of which may include; weakness, dizziness, slurted speech, drowsiness,	t Protection of first
Ingestion	unconsolutiones and in cases of severe overexposure; coma and death. I opector of this product may cause gather-itestinal interaction. Aspiration of this produ- may result in severe intation or burns to be respiratory tract. Inspection of this produ- may cause-Certain Nervise System (FOC) Expension, prognoms of which may inclu- weakness, dtzmses, sturmed speech, drowstiness, unconscisueness and in cases of severe overexposure; crom and death.	in the physical sector of the physical sector
Date of Issue : 10/10/2012.	Internet: www.petro-canada.ca/msds Page:	1/8 Date of Issue : 10/
Petro-Canada is a Suncor Ene		

GASOLINE, UNLEADED	Page Number: 5
	ntrols/personal protection
Hande	Chemical-resistant, impervisor gives compling tim a approved standast total de even al al interes with mading determinal product 3 na al accession in necessary. Recommon provide the mading determinal product 3 na al accession of the product of the accession of the specific gives the last sets for typ standard on part use patients. If standard on the rule display the last sets for typ standard on part use patients. If standard product a patient reports and standard on the rule display the last sets for typ standard reports and standard product and the specific gives and the specific gives and the specific gives and the standard on the rule application. If standard the rule of the specific gives and the specific gives and the rule and the standard on the rule application of the specific gives and the specific gives and the specific gives and the rule application of the specific gives and the specific giv
Eyes	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Skin	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, furme scrubbers, fitters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
9. Physical and	chemical properties
Physical state	: Clear liquid.
Flash point	: Closed cup: -50 to -38*C (-58 to -36.4*F) [Tagilabue.]
Auto-Ignition temperature	: 257°C (494.6°F) (NFPA)
Flammable limits	: Lower: 1.3% (NFPA) Upper: 7.6% (NFPA)
Color	: Clear to slightly yellow or green, undyed liquid. May be dyed red for taxation purposes.
Odor	: Gasolne
	<ul> <li>Not available</li> </ul>
рН	Not available.
pH Boiling/condensation point	Not available. 25 to 220°C (77 to 428°F) (ASTM D86)
pH Boiling/condensation point Melting/Treezing point	Not available. : 25 to 220°C (77 to 428°F) (ASTM D86) : Not available.
pH Boiling/condensation point Meiting/treezing point Relative density	Not available. 2 Sto 220°C (77 to 428°F) (ASTM D86) Not available. 0.668 to 0.8 kgL @ 15°C (55°F)
pH Boiling/condensation point Melting/freezing point Relative density Vapor pressure	: Not available. : 25 to 2207 (7 to 428°F) (ASTM D66) : Not available. 0.066 to 0.8 spi_0 (§ 5°C (59°F) : <107 kF4 < 4025 mm Hpj (⊕ 37.8°C (100°F)
pH Boiling/condensation point Meiting/treezing point Relative density Vapor pressure Vapor density	: Not available. : 25 to 2200 (77 to 420°F) (AGTM D66) : Not available. : 0.685 to 0.8 typl, (d) 15°C (59°F) : <107 kPa (<602.5 mm Hg) (d) 27.5°C (100°F) : 310 4 (Ava - 1) (NPA).
pH Boiling/condensation point Melting/treezing point Relative density Vapor pressure Vapor density Voladility	N Rd zvalabile 2 S to 220°C (7 to 420°F) (ACTM D86) 1 A Rd zvalable 2 6 ASS to 5 ByL @ 15°C (S5°F) 3 - 4107 Maj 4 4202 Smm Hg @ 37.8°C (100°F) 3 3 to 4 (Ar - 1] (NPA) N Rd zvalable
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pH Boiling/condensation point Meiting/treezing point Relative density Vapor density Volatility Evaporation rate Viscosity	<ul> <li>Na available.</li> <li>25 b 220° (10 to 205°) (ASTM DB6)</li> <li>16 ka available.</li> <li>0.65 to 34 pigt @ 15°C (55°P)</li> <li>16 ka (14 to 16 to</li></ul>
pH Boiling/condensation point Meiting/treazing point Relative density Vapor density Volatility Evaporation rate Viscosity Pour point	
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Internet: www.petro-canada.ca/msds Page: 5/8 business <sup>114</sup> Trademark of Suncor Energy Inc. Used under licence.

Date of Issue : 10/10/2012. Internet: Petro-Canada Is a Suncor Energy business

Eyes Stential chronic health effe Shronic effects		31150
Childrife effects	<ul> <li>This product contains an ingredient or ingredients, which have been shown to o chronic toxic effects. Repeated or prolonged exposure to the substance can pr blood disorders.</li> </ul>	
Carcinogenicity	: Contains material which can cause cancer. Risk of cancer depends on duratio level of exposure.	n and
Mutagenicity Feratogenicity	Contains material which may cause heritable genetic effects.	
reratogenicity Developmental effects Fertility effects	No known significant effects or critical hazards.     No known significant effects or critical hazards.	
Fertility effects edical conditions	<ul> <li>No known significant effects or critical hazards.</li> </ul>	bee police
ggravated by over- cposure	<ul> <li>Repeated or prolonged contact with spray or mist may produce chronic eye infl severe skin inflation. Repeated skin exposure can produce local skin destruct demaities.</li> </ul>	on or
ee toxicological information		
. Composition/	information on ingredients	
ame asoline bluene enzene blanol	CAS number % 86290-81-5 85-10	, ,
bluene	109-88-3 15-40 71-43-2 0.5-1. 64-17-5 0.1-0.	5
hanol Aontreal: may vary from 3-40	64-17-5 0.1-0.	3
nere are no additional ingre oncentrations applicable, a	not distant which, within the current knowledge of the supplier and in the classified as hazardous to health or the environment and hence require rep	orting in
<ul> <li>First aid measure contact</li> </ul>		
ye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get me attention immediately.	or water Idical
kin contact	auenous immediately. : In case of contact, immediately flush skin with plenty of water for at least 15 mil	nutes _
	: In case of contact, immediately flush skin with pienty of water for at least 15 mi while removing contaminated clothing and shoes. Wash skin thoroughly with is water or use recognized skin cleanser. Wash clothing before reuse. Clean ski thoroughly before reuse. Get medical attention immediately.	oap and ces
halation	thoroughly before reuse. Get medical attention immediately. : Move exposed person to fresh air. If not breathing, if breathing is irregular or if	
	torocogny before reuse. Let metoda attention immediately. I Nove exposed person to free that it. If not breaking, if breaking is inegular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained pers Lossen tight clohing such as a collar, tie, beit or waistband. Get medical atten immediately.	onnel. tion
gestion	Immediately.	v medical
Asserved	: Wash out mouth with water. Do not induce vomiting unless directed to do so b personnel. Never give anything by mouth to an unconscious person. Get med attention immediately.	ical
rotection of first-aiders	attention immediately. No saction state basken hvolving any personal risk or without suitable training, supported that times are still present, the rescuer should waar an apporphile set-contained orange the damage state and the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the mentioner if the set of the	If it is
	suspected that turnes are still present, the rescuer should wear an appropriate self-contained breathing apparatus. It may be dangerous to the person provide	mask or ng aid to
	give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly wit before removing it, or wear gloves.	n water
otes to physician	<ul> <li>No specific treatment. Treat symptomatically. Contact poison treatment special Immediately if Jame quantities have been innested or inhaled.</li> </ul>	alist
ate of Issue : 10/10/2012.	Internet: www.petro-canada.ca/msds	Page: 2/8
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Page Number: 2

SASOLINE, UNLEADED				Page Number: 3	GASOLINE, UNLEADED	Page Num
. Fire-fighting	neasures				7. Handling and	storage
lammability of the product	: Flammable liquid (NFPA) .				<b>y</b>	closed when not in use. Store and use away from heat, sparks, open flame of ightion source. Use explosion-proor electrical (ventilating, lighting and mate handling) equipment. Use non-sparking books. Take precautionary measure electrostatic discharges. To avoid fire or explosion, dissipate static electricity
xtinguishing media Suitable	: Use dry chemical, CO <sub>2</sub> , wal	er rorau (foc) or foco				handing equipment. Use non-sparking tools. Take precautionary measures locification of the sparking tools. Take precautionary measures
Not suitable	: Do not use water let.					transfer by grounding and bonding containers and equipment before transfer malerial. Empty containers retain product residue and can be hazardous. D
pecial exposure hazards	<ul> <li>Promptly isolate the scene there is a fire. No action sh training. Move containers f</li> </ul>	by removing all perso all be taken involving	ns from the vici any personal ri	inity of the incident if isk or without suitable		container.
	spray to keep fire-exposed	containers cool.			Storage	Store in accordance with local regulations. Store in a segregated and approv. Store in original container protected from direct sumptin in a dry, cool and we area, away from incompatible metalities (see section 10) and board dorfs, and sead out in local board and and and and and and and and and an
roducts of combustion	Carbon oxides (CO, CO2), phenois, aldehydes, ketone	nitrogen oxides (NOx	, polynuclear a	romatic hydrocarbons,		area, away from incompatible materials (see section 10) and food and drink, all ionition sources. Separate from oxidizion materials. Keen container light
	compussion.					and sealed until ready for use. Containers that have been opened must be o resealed and kent untight to prevent leak age. Do not store in unlabeled cont
pecial protective quipment for fire-fighters	: Fire-fighters should wear a apparatus (SCBA) with a fu	propriate protective ( Il face-piece operatec	quipment and in In positive pre-	self-contained breathing ssure mode.		appropriate containment to avoid environmental contamination. Ensure the st containers are grounded/bonded.
pecial remarks on fire	: Extremely flammable in pre beauler than air and may to	sence of open flames	sparks, shock	is, and heat. Vapours are s of ignition and flash	9 Exposure on	ntrols/personal protection
	heavier than air and may tr back. Rapid escape of vap accumulate in confined spa	our may generate stat ces.	c charge causi	ng ignition. May		Exposure Imite
pecial remarks on xplosion hazards	<ul> <li>Do not pressurize, cut, welk sources of ignition. Contain mixtures with air.</li> </ul>	d, braze, solder, drill,	rind or expose	containers to heat or	Gasoline	ACGIH TI V (United States)
cprosion nazaros	mixtures with air.	ele may explore in n	at of file. Vapo	die may torm explosive		TWA: 300 ppm 8 hour(s). STEL: 500 ppm 15 minute(s). ACGH TLV (United States).
	ease measures				Toluene	ACGIH TLV (United States). TWA: 20 ppm 8 houris).
ersonal precautions	No action shall be taken inv Evacuate surrounding area entering. Do not touch or v flares, smoking or flames in adequate ventilation. Wea	volving any personal r s. Keep unnecessan	sk or without si and unprotected	ultable training. ed personnel from	Benzene	TWA: 20 ppm 8 hour(s). ACGH TLV (United states). Absorbed through skin. TWA: 0.5 ppm 8 hour(s). STEL: 2.5 ppm 15 minute(s).
	entering. Do not touch or v flares, smoking or flarnes in	valk through spilled m hazard area. Avoid	aterial. Shut of preathing vapor	f all ignition sources. No r or mist. Provide	Ethanol	STEL: 2.5 ppm 15 minute(s). ACGIH TLV (United States).
	adequate ventilation. Wea on appropriate personal pro	r appropriate respirate stective equipment (se	r when ventilat e Section 8).	ion is inadequate. Put		STEL: 1000 ppm 15 minute(s).
invironmental precautions	: Avoid dispersal of spilled m and sewers. Inform the rele	aterial and runoff and	contact with so	oll, waterways, drains		r acceptable exposure limits. : If this product contains ingredients with exposure limits, personal, workplace a
	pollution (sewers, waterway	rs, soll or air).	produce nab Ce	active crimitori mentar	Recommended monitoring procedures	or biological monitoring may be required to determine the effectiveness of the or other control measures and/or the necessity to use resolution, moterflye e
lethods for cleaning up Small spill	· Stop leak if without risk M	ove containers from s	oli area Diute	e with water and mon up	Engineering measures	: Use only with adequate ventilation. Use process enclosures, local exhaust w
	<ul> <li>Stop leak if without risk. M If water-soluble. Alternative place in an appropriate was</li> </ul>	ely, or if water-insolub	e, absorb with	an inert dry material and		c) Use only with adequate verifiation. Use process enclosures, local exhaust verifiation of the engineering controls to keep worker exposure to antonne contaminants recommended or statutory limits. The engineering controls also need to keep or dust concentrations below any lower explosive limits. Use explosion-proof environment.
					11	
Large spill	<ul> <li>Stop leak if without risk. M upwind. Prevent entry into spillages into an effuent tre spillage with non-combustit diatomaceous earth and pla</li> </ul>	ove containers from s sewers, water course	s, basements o	or confined areas. Wash	Hyglene measures	Wash hands, forearms and face thoroughly after handling chemical products, eating, smoking and using the lavatory and at the end of the working period. Letchriques a kindu de used to remove potentiatly contaminated clothing. Was contaminated clothing before reusing. Ensure that eyewash stations and safe are close to the workitation location.
	spillages into an effluent tre spillage with non-combustit	atment plant or proce xie, absorbent materia	ed as follows. I e.g. sand, ear	Contain and collect th, vermiculite or		techniques should be used to remove potentially contaminated clothing. Was contaminated clothing before reusing Ensure that evenably stations and safe
	(see section 13). Use spar	k-proof tools and exp	posal accordin psion-proof equ	ig to local regulations lipment. Dispose of via		are close to the workstation location.
	(see section 13). Use spar a licensed waste disposal o same hazard as the spilled information and section 13	ontractor. Contamin: product. Note: see s	ted absorbent i action 1 for emi	material may pose the ergency contact	Personal protection Respiratory	: Use a property fitted, air-purifying or air-fed respirator complying with an appr
		for waste disposal.				<ul> <li>Use a property fitted al-point/ing or air-for sepirator complying with an apport standard of a risk assessment indicates this is necessary. Responsaria selecto based on known or antiopated exposure levels, the hazards of the product working limits of the selected respirator. Recommended: A NIOD-happroved putyling respirator with an organic vapour cartridge or cansister may be permi- under certain clarimstances shares atomer acconcentations are expected to a under certain clarimstances shares atomer acconcentations are expected to a</li> </ul>
<ol> <li>Handling and</li> </ol>						working limits of the selected respirator. Recommended: A NIOSH-approved purfiving respirator with an organic vapour cartridge or canister may be permi
landling	<ul> <li>Put on appropriate persona smoking should be prohibit processed. Workers shoul Remove contaminated clott function approximated clott</li> </ul>	I protective equipment ed in areas where this	t (see Section 8 material is har	<ol> <li>Eating, drinking and idled, stored and</li> </ol>		under oertain dircumstances where altoome concentrations are expected to e exocure limits. Protection provided by all-cuttiving resolutions is limited. Us
	Processed. Workers shoul Remove contaminated clott	d wash hands and fac hing and protective ec	e before eating uipment before	I, drinking and smoking. entering eating areas.		exposure limits. Protection provided by air-purifying respirators is limited. Us positive-pressure, air-supplied respirator if there is any potential for uncontroll exposure livels are unknown, or any other circumstances where air-purifying may not provide adequate protection.
	Avoid exposure - obtain sp ciching. Do not ingest. Av ventilation. Wear appropria storage areas and confined container or an approved a	ecial instructions befo old breathing vapor of	re use. Do not r mist. Use oni	get in eyes or on skin or ly with adequate		máy not provide adequate protection.
	ventilation. Wear appropria storage areas and confined	ate respirator when ve spaces unless adequ	ntilation is inad rately ventilated	equate. Do not enter 1. Keep in the original		
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## **Chemical Tracking System**

Chemical tracking systems are a chemical database which is used to characterize the life of chemicals used in the laboratory. They should cover the history of the chemical. The following tracking fields are recommended:

- 1. Date of inventory.
- 2. Date chemical received.
- 3. Specific amount of each chemical.
- 4. Name, formula and grade of each chemical.
- 5. Chemical hazard of each item [Safety Data Sheet (SDS) information and National Fire Protection Association (NFPA) hazard code].
- 6. Chemical Abstract Service (CAS) registry number.
- 7. Source (supplier).
- 8. Container type.
- 9. Hazard classification.
- 10. Required storage conditions.
- 11. Expiration date.
- 12. Storage location of each chemical.
- 13. Amount of chemical in the container.



### Disposal

### Purchasing



Handling Storage

The total chemical life cycle defines the stages of a chemical's **purchase**, **use**, and **disposal**.

#### **Rule 1: Purchase of Chemicals**

Don't buy or store chemicals you don't need.

#### **Rule 2: Chemicals Storage**

Store chemicals in their original containers.

#### **Rule 3: Chemicals Handling**

Always wear appropriate safety gear and work in a safe environment.

**Rule 4: Chemicals Disposal** Always dispose of chemicals safely.

## **General Guidelines**

## Purchasing, Handling, Storing and Disposing of Chemicals

## **Ordering & Receiving Chemicals**

- Estimate the amount of chemicals needed based on inventory.
- Don't buy or store chemicals you don't need.
- Order only minimal amounts of chemicals.
- Make sure laboratory ventilation system and/or fume hood exhaust will meet the needs for chemical use.
- Make sure appropriate storage is available: flammable liquid cabinet, acid cabinet, chemical storeroom.
- Do not accept any chemicals without an Safety Data Sheets (SDS).
- Do not accept any chemicals without proper labeling.
- Transport gas cylinders one at a time using an appropriate hand truck. Do not remove valve cap until the cylinder is in the storage location.



## **Storage of Chemicals**

- All chemical shelving needs front edge lips of approximately 9 centimeters in height.
- Storage areas are to have appropriate ventilation.
- All chemical storage shelving and cabinets are to be secured to the wall to prevent tipping over.
- Chemicals should not be stored above eye level.
- All chemicals containers must be properly labeled, dated and in good condition in preparation for storage.
- Never place large or heavy containers on high shelves.
- Never store chemicals on tops of cabinets or on floors or above each other.



- Chemicals are to be organized by **compatibility**, not alphabetically. Incompatible chemicals are to be stored separately.
- Chemicals should be stored alphabetically within the same compatible groups.
- Segregate chemicals by hazard class
  - flammable compressed gases
  - nonflammable compressed gases
  - flammable liquids
  - combustible liquids
  - flammable solids
  - corrosive acids
  - corrosive bases
  - oxidizers
  - organic peroxides
  - spontaneously combustible reactives
  - water reactives
  - explosives
  - radioactives

CHEMICAL STORAGE AREA UNAUTHORISED PERSONNEL KEEP OUT

- Flammable liquids should be stored in an approved safety cans and cabinets.
- Chemicals should not be exposed to direct heat, sunlight or highly variable temperatures.

## **Handling & Using Chemicals**

- Be aware of safety equipment location in case of a chemical splash or spill including the chemical spill cart.
- Review Safety Data Sheets (SDS) and labels for hazards associated with a chemical before using it.
- Use appropriate personal protective equipment (PPE): chemical splash goggles, hand protections, apron, closed toed shoes. Flip flops and sandals are inappropriate footwear in the chemistry lab.



• Do not eat, drink, smoke, chew gum, apply cosmetics, or pipette by mouth.

• Use the buddy system. Never work alone without another staff member present (especially beyond working hours).

Do not mouth pipet





No smoking, eating or drinking

- Never smell, taste or touch chemicals with bare hands.
- Remove only the quantity required for the current procedures.
- Never return a chemical to original container once it has been removed.
- Never leave hazardous chemicals or processes unattended.

- Use a fume hood for all work with volatiles and hazardous chemicals.
- Use good housekeeping practices. Keep areas clean and uncluttered.
- Always clean up after completing the laboratory activity.



• Always wash hands with soap and water after completing the laboratory activity.



- Do not work with hazardous chemicals at night, or weekends- especially when you are alone in the laboratory.
- Maintain clear access to exits, showers, and eyewashes. Be aware of all emergency procedures including building evacuation plans.

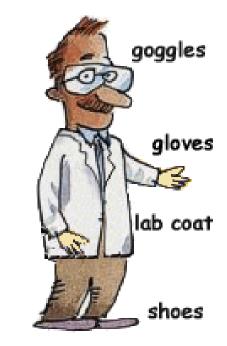


### **Safety Wears & Protective Equipment**

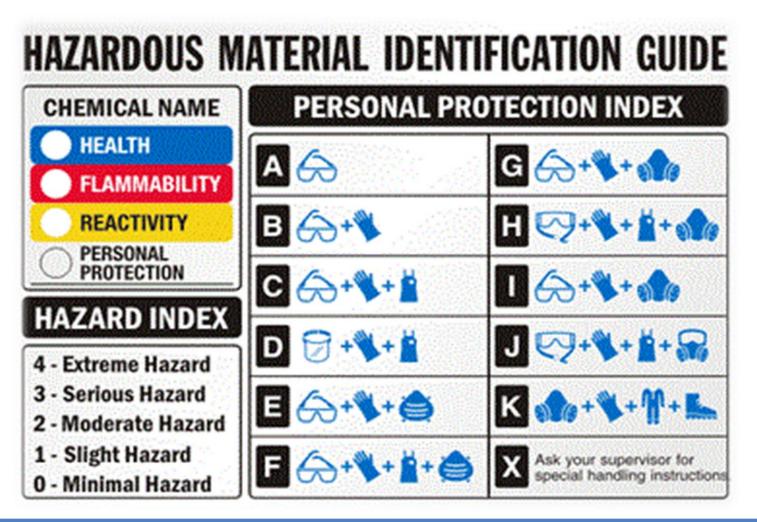
Equipment worn to minimize exposure to serious workplace injuries and illnesses. It depends on the type of work, risk and chemicals.

These injuries and illnesses may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards.

- Eye protection
- Hear protection
- Respiratory protection
- Head and face protection
- Hand and arm protection
- Foot and leg protection
- Ear protection
- Body protection



Personal protective equipment (PPE) may include items such as gloves, safety glasses and shoes, earplugs or muffs, hard hats, respirators, or coveralls, vests and full body suits. PPE represent the last barrier of defense between the user and the hazard.



### **Chemicals Disposal**



• Chemicals are to be disposed of or recycled using environmentally safe procedures.

• The disposal procedures should aim to reuse, reduce and recycle of chemicals, as can as possible.



- Read Safety Data Sheets (SDS) for appropriate chemical disposal.
- No disposal of chemicals into any drain, sink or sewer.
- Keep container closed unless filling.









- Label the container with appropriate chemical information content and volume or mass.
- Use only certified and approved chemical waste contractors.
- Place used chemicals or products in containers designed and labeled for that purpose.





# Be Safe !!!!!!

