



Revision nr. 2.3

HYLINE HLC-70

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Safety Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: **HYLINE HLC-70**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Industrial	Professional	Consumer
Alkaline cleaner.	✓	✓	-

Uses Advised Against

All uses not indicated in the identified use.

1.3. Details of the supplier of the safety data sheet

Importer:

Name: Hobart Food Equipment

Address: Unit 1, 2 Picken Street,
Silverwater,
NSW – 2128
Australia

Telephone Number: 1800 462 278

Website: www.hobartfood.com.au

1.4. Emergency telephone number

Emergency Telephone: Poison Information Centre: 131126

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Acute toxicity, category 4	H302	Harmful if swallowed.
Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Substance or mixture corrosive to metals, category 1	H290	May be corrosive to metals.
Serious eye damage, category 1	H318	Causes serious eye damage.

2.2. Label elements

Hazard pictograms:



Signal words:

Danger



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Hazard statements:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statements:

H290 May be corrosive to metals.
P260 Do not breathe dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / clothing and eye / face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER / doctor.

Contains: POTASSIUM HYDROXIDE
ETHYLENE DIAMINE TETRACETATE TETRASODIUM

Ingredients according to Regulation (EC) No. 648/2004

Less than 5% amphoteric surfactants, non-ionic surfactants, EDTA and salts thereof

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Identification	x = Conc. %	Classification 1272/2008 (CLP)
POTASSIUM HYDROXIDE		
CAS 1310-58-3	$15 \leq x < 25$	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314
EC 215-181-3		
INDEX 019-002-00-8		
Reg. no. 01-2119487136-33-XXXX		
1-METHOXY-2-PROPANOL		
CAS 107-98-2	$5 \leq x < 10$	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-539-1		
INDEX 603-064-00-3		
Reg. no. 01-2119457435-35-XXXX		
β-ALANINE, N-(2-CARBOXYETHYL)-, N-COCO ALKYL DERIVS., DISODIUM SALTS		
CAS 90170-43-7	$3 \leq x < 5$	Eye Irrit. 2 H319



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EC 290-476-8

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Reg. no. 01-2119976233-35-XXXX

ETHYLENE DIAMINE TETRACETATE TETRASODIUM

CAS 64-02-8

 $1 \leq x < 3$

Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318

EC 200-573-9

INDEX 607-428-00-2

Reg. no. 01-2119486762-27-XXXX

D-GLUCOPYRANOSE, OLIGOMERS, DECYL OCTYL GLYCOSIDES

CAS 68515-73-1

 $1 \leq x < 3$

Eye Dam. 1 H318

EC 500-220-1

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Reg. no. 01-2119488530-36-XXXX

TRISODIUM NITRILACETATE

CAS 5064-31-3

 $0,1 \leq x < 0,2$

Carc. 2 H351, Acute Tox. 4 H302, Eye Irrit. 2 H319

EC 225-768-6

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Reg. no. 01-2119519239-36-XXXX

SECTION 4. First aid measures

4.1. Description of first aid measures.

IF ON SKIN:

Immediately take off contaminated clothing.

CONSULT A DOCTOR IMMEDIATELY.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with plenty of soap and water.

IF IN EYES:

In case of contact with eyes, rinse them with water for a sufficient length of time and under the eyelids, then consult an ophthalmologist immediately.

Protect unharmed eye.

IF SWALLOWED:

Rinse Mouth. Do NOT induce vomiting.

IF INHALED:

Remove to fresh air and keep warm and at rest.

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

INHALATION:

Respiratory tract irritation.

SKIN CONTACT:

Heartburn intense and penetrating ulcers of the skin.

EYE CONTACT:

Eye burns. It may cause ulceration of the conjunctiva and cornea.

AFTER INGESTION:

Burns in mouth, esophagus, can cause internal perforation.

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

In case of accident or unwellness, seek medical advice immediately (if possible show directions for use or safety data sheet).

Treatment: None.



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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapors and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit, gloves and boots in combination with self-contained open circuit positive pressure compressed air breathing apparatus.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.



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7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labeled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

The identified uses for this product are identified in Section 1.2

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

POTASSIUM HYDROXIDE

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm
VLA	ESP			2	
VLEP	FRA			2	
WEL	GBR			2	
TLV-ACGIH				2 (C)	

1-METHOXY-2-PROPANOL

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	
VLEP	ITA	375	100	568	150	SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	10	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	41,6	mg/kg
Normal value for marine water sediment	4,16	mg/kg
Normal value for water, intermittent release	100	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	2,47	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3,3 mg/kg				
Inhalation				43,9 mg/m3	553,5 mg/m3			369 mg/m3
Skin				18,1 mg/kg				50,6 mg/kg

ETHYLENE DIAMINE TETRACETATE TETRASODIUM

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm
OEL	EU	5			

Predicted no-effect concentration - PNEC

Normal value in fresh water	2,2	mg/l
Normal value in marine water	0,22	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			1,5 mg/l				2,5 mg/l	



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SODIUM HYDROXIDE

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm
VLA	ESP	2			
VLEP	FRA	2			
WEL	GBR			2	
TLV-ACGIH				2 (C)	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			1 mg/m3				1 mg/m3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

EYE PROTECTION:

Use close fitting safety visors, do not use eye lens. Use safety glasses with side protection from splashes type EN166.

SKIN PROTECTION: Wear clothing that provides comprehensive protection to the skin, eg. cotton, rubber, PVC or viton. Body protection: acid-resistant clothing or plastic apron or overalls. Lower limb protection: Boots resistant to chemicals.

HAND PROTECTION:

Use protective gloves that provides comprehensive protection, PVC, neoprene or rubber.

Use gloves with a protection factor 6: breakthrough time > 480min, minimum thickness 0.3 mm. (Ex: Natural rubber - NR (0,5 mm); Polychloroprene - CR (0.5 mm); Nitrile - NBR (0.35 mm), butyl rubber (0.5 mm); FKM (0.4 mm) ; PVC (0.5 mm)).

Change protective gloves which were used in the presence of signs of wear, cracks or internal contamination.

RESPIRATORY PROTECTION:

Use adequate respiratory protection. Avoid breathing vapors.

The Atmospheric levels should be maintained below the exposure limits. For certain operations when the concentration in the air exceeds the TLV is required respiratory protection: use masks.

THERMAL RISKS:

Wear heat resistant gloves when thermal hazards.

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid the formation of mists or aerosols. Do not eat or drink when handling.

Follow general hygiene measures for the use of chemicals.

TECHNICAL CHECKS SUITABLE:

None.

ENVIRONMENTAL EXPOSURE CONTROLS:

Emissions from production processes, including those from ventilation should be checked for compliance of environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Color	Amber
Odor	Characteristic
Odor threshold	Not available
pH (10 g/L)	Approx 13,0
Melting point / freezing point	Approx -5 °C
Initial boiling point	Approx 120 °C
Boiling range	Not available



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Flash point	> 100 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Approx 1,20 g/cm ³
Solubility	Soluble
Partition coefficient: n-Octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

POTASSIUM HYDROXIDE

May develop: heat. May corrode: metals.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

POTASSIUM HYDROXIDE

Stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

POTASSIUM HYDROXIDE

Develops hydrogen on contact with: metals. Develops heat on contact with: strong acids. Reacts violently with: water.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

POTASSIUM HYDROXIDE

Avoid exposure to: sources of heat. Keep away from: oxidizing agents, acids, flammable substances, halogens, organic substances. Keep away from: lead, aluminum, copper, tin, sulphur, bronze. Absorbs atmospheric CO₂.

Unstable on exposure to air. Freezing.

10.5. Incompatible materials.

Information not available.



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10.6. Hazardous decomposition products.

POTASSIUM HYDROXIDE

May develop: flammable gases.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

Information on likely routes of exposure

Information not available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available.

Interactive effects

Information not available.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l

LD50 (Oral) of the mixture: 1226 mg/kg

LD50 (Dermal) of the mixture: Not classified (no significant component)

1-METHOXY-2-PROPANOL

LD50 (Oral) 4016 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rat

D-GLUCOPYRANOSE, OLIGOMERS, DECYL OCTYL GLYCOSIDES

LD50 (Dermal) > 4000 mg/kg Rat

β-ALANINE, N-(2-CARBOXYETHYL)-, N-COCO ALKYL DERIVS., DISODIUM SALTS

> 5000 mg/kg Rat

LD50 (Oral)

POTASSIUM HYDROXIDE

LD50 (Oral) 333 mg/kg Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class.



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REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

1-METHOXY-2-PROPANOL

LC50 - for Fish	> 6800 mg/l	Leuciscus idus
EC50 - for Crustacea	23300 mg/l	Daphnia magna
EC50 - for Algae / Aquatic Plants	> 1000 mg/l	Pseudokirchneriella subcapitata

ETHYLENE DIAMINE TETRACETATE TETRASODIUM

LC50 - for Fish	> 100 mg/l	Lepomis macrochirus
EC50 - for Crustacea	> 100 mg/l	Daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l	Scenedesmus obliquus
Chronic NOEC for Fish	> 36,9 mg/l	Specie Brachydanio rerio, days 35
Chronic NOEC for Crustacea	> 25 mg/l	Specie Daphnia magna, days 14

β -ALANINE, N-(2-CARBOXYETHYL)-, N-COCO ALKYL DERIVS., DISODIUM SALTS

LC50 - for Fish	420 mg/l	Oncorhynchus mykiss
EC50 - for Crustacea	97,5 mg/l	Daphnia magna
EC50 - for Algae / Aquatic Plants	9,4 mg/l	

12.2. Persistence and degradability

POTASSIUM HYDROXIDE

Solubility in water	> 10000 mg/l
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Biodegradability: Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available



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12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1814

14.2. UN proper shipping name

ADR / RID: POTASSIUM HYDROXIDE SOLUTION

IMDG: POTASSIUM HYDROXIDE SOLUTION

IATA: POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA: III

HAZCHEM code: 2R

14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO



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14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5 L	Tunnel restriction code: (E)
	Special Provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852
	Special Instructions:	A3, A803	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule

S6

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Carc. 2	Carcinogenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H226	Flammable liquid and vapor.
H290	May be corrosive to metals.
H351	Suspected of causing cancer.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.



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- H319** Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of classification and labelling of chemicals.

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.