



SAFETY DATA SHEET

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

1.1 Product Identifiers

Product Name: AW 410

SDS Number: AW 410-2015

Product Type: Solvent

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

Product Use: Solvent

1.3 Detail of the supplier of the safety data sheet

Manufacture / Supplier / Importer: Tabriz Oil Refining Company

5 Tabriz – Azarshar Road
Tabriz,
East Azerbaijan,
IR.Iran.
Postal Cod: 5197131111
www.tabrizrefinery.co.ir

Contact person: General Information
+98-4121148305
info@tbzrefinery.co.ir

Emergency telephone number: +98-4121149117-118

SECTION 2: Hazard Identification**2.1) Classification of the substance or mixture**

H225: Highly flammable liquid and vapor

Cat: 2

H304: May be fatal if swallowed and enters air ways

Cat: 1

H336: May cause drowsiness or dizziness

Cat: 3

R11: Highly flammable

R38: Irritating to skin

R65: Harmful, may cause lung damage if swallowed

R67: Vapor may cause drowsiness and dizziness

2.2) Label Elements**Hazard Pictogram**

GHS02



GHS07



GHS08



Signal word: Danger

Hazard statement: Highly flammable liquid and vapor may be fatal if swallowed and enters airways.

Precautionary statement:

- Use only non-sparking tools
- Avoid release to the environment
- Use only outdoor or in a well-ventilated area
- Wear protective gloves / protective clothing / eye protection / face protection
- Keep away from heat / sparks / open flames / hot surfaces
 - No Smoking
- Keep container tightly closed
- Ground / bond container and receiving equipment
- Use explosion proof electrical equipment
- Take precautionary measures against static discharge
- Dispose of contents and container in accordance with local, regional, national and international regulations
- Store in a well –ventilated place, keep cool
- Avoid breathing vapor / spray
- Remove victim to fresh air and keep at rest in a position comfortable for breathing collect spillage
- Remove / take off immediately all contaminated clothing, rinse skin with water / shower

SECTION 3: Composition / information on ingredients
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Substance / mixture: Mixture



Substance Name	% by weight	classification
Hydrocarbon	100%	R10 , R65 , R66 , R67 , R20
(IBP : 55 - FBP: 115°C) See section 9		H226 , H336 , H304

SECTION 4: First aid measures

4.1) Description of first aid measures

Inhalation: Provide fresh air

Keep at rest

In case of shortness of breath, give oxygen
when in doubt or if symptoms are observed, get
medical advice .

Skin contact: Take off immediately all contaminated
clothing.

After contact with skin, wash with plenty of water and when in
doubt or if symptoms are observed, get medical advice.

Eye contact: Rinse immediately with plenty of water, also
under the eyelids, for at least is 15 minutes

In care of ingestion:

Call a physician immediately.

Do not induce vomiting.

Rinse mouth.



Protection of first aid personnel:

Pay attention to self-protection .

When in doubt or if symptoms are observed ,
get medical advice.

Treat symptomatically

Never give anything by mouth to an unconscious
person or a person with cramps

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

Inhalation: Vapors may cause drowsiness and dizziness, may cause respiratory irritation. Inhalation of high vapor concentration can cause CNS- depression and narcosis, headache, dizziness, tiredness, nausea and vomiting

Skin contact: Repeated exposure may cause skin dryness or cracking, erythema (redness)

Eye Contact: May cause eye irritation. Repeated or prolonged exposure cause redness.

Ingestion: Aspiration hazard if swallowed – can enter lungs and cause damage. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia.



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

No data available

SECTION 5: Fire fighting measures

5.1) Extinguishing Media

Suitable: Water spray, foam, carbon dioxide, dry chemical extinguishing media which must not be used for safety reasons: Strong water jet.

5.2) Special hazard arising from the substance or mixture

Fire hazard: Flammable

Specific hazard: The pressure in sealed containers can increase under the influence of heat. Heating causes rise in pressure with risk of bursting. Vapors can form explosive mixtures with air, are heavier than air and may spread along floors, can travel considerable distance to an ignition source where they can ignite, flash back or explode.

Do not allow turn off from fire fighting to enter drains or water courses.

5.3) Advice for fire fighting

Evaluate area, special protective equipment for fire fighters. In case of fire wear SCBA apparatus. Use water spray to protect personnel and to cool endangered containers. Collect



contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1) Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel: Evacuate area, use personal protective equipment. Provide adequate ventilation. Stay upwind/keep distance from source. Avoid contact with skin and eyes. Do not breathe vapor/spray. Keep away from heat, hot surfaces, sparks open flames and others ignition sources. No smoking .Ensure that all equipments are adequately grounded. Get medical / attention, if you feel unwell.

For emergency responders: Ensure producers and training for emergency decontamination and disposal are in place.

6.2) Environmental Precautions

Do not allow to enter into surface water or drains.

Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic release.



6.3) Methods and material for containment and cleaning up.

Remove all sources of ignition. Do not smoke. Provide adequate ventilation.

Clean up methods: -Small spillage: Stop leak if safe to do so.

Remove all sources of ignition. Do not smoke. Provide adequate ventilation.

Clean up methods: -Small spillage: Stop leak if safe to do so.

- Absorb with liquid – binding material (e.g. sand, earth)

-Large spillage: Stay up wind / keep distance from source.

Collect in closed and suitable containers for disposal. Delivery to an approved waste disposal company. Material can create sloppy conditions.

6.4) Reference to other sections:

See section 13 for disposal

See section 8 for personal protective equipments

SECTION 7: Handling and storage

7.1) Precaution for safe handling

Handling:

-Provide adequate information, instruction and training for operators.

- Provide adequate ventilation.

- Use personal protective as required.



- Avoid contact with skin, eyes and clothes.
- Do not breathe vapor / spray.
- Take precautionary measures against static discharges.
- Ensure that the equipment is adequately grounded.
- Keep away from heat, hot surface, sparks, open flames and other ignition sources.
- No smoking
- Take any precaution to avoid mixing with incompatible materials.
- Do not allow to enter into surface water or drains.

Advices on general occupational hygiene: Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Take off contaminated clothing. Keep away from food, drink and animal feeding stuffs.

7.2) Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep / store only in original container. Keep in a bonded area. Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. Do not store near or with any of the incompatible materials.

Packaging materials: Stainless steel, carbon steel

NOTE: In case of using non-metallic (non- conductive) container such as PE, manufacture's advice taking is essential.



7.3) Specific and use (s):

Recommendations: not available

Industrial sector specific solution: not available

SECTION 8: Exposure Control /Personal protection

8.1) Control Parameters

Exposure limit value: See bellow tables

Recommended monitoring procedures: Concentration measurement in air EN 689.

Workers	
1) Acute – systematic effect , inhalation	Not Available
2) Long term - systematic effect dermal	Not Available
3) Long term - systematic effect , inhalation	Not Available
General Population	
1) Acute – systematic effect , inhalation	Not Available
2) Long term - systematic effect oral	Not Available
3) Long term - systematic effect , inhalation	Not Available

PNEC (Additional Information): No data available



8.2) Exposure Controls

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Half-face mask (EN 140)

Full –face mask (EN 136)

Filter –type A2 (EN 141)

SCBA (EN 137)

Hand Protection: Protective gloves (EN 374, EN 420)

Breakthrough time (maximum wearing time) > 240 –class 5

.The section of specific gloves for a specific application and time of use in a working area , should also take into account other factors on the working space , such as physical requirements (protection against cutting) , nitril rubber.

Eye protection: Safety glasses with side shield goggles (EN 166)

Body protection: Wear chemical resistant apron (nitril rubber)

Thermal hazard protection : Not required under normal use.

Engineering control measures:

-Provide adequate ventilation



- Use only in area provided with appropriate exhaust ventilation.
- A washing facility / water for eye and skin cleaning purpose should be present.
- Take precautionary measures against static discharge.
- Provide adequate precautions such as electrical grounding and bonding or inert atmosphere.

Organizational measures to prevent / limit releases, dispersion and exposure.

Environmental exposure control : Do not enter into surface water or drains. Comply with applicable community environmental protection legislation.

SECTION 9: Physical and Chemical Properties

9.1) Information on basic physical and chemical properties

Appearance:	Liquid
Color :	Min. 25 (Saybolt)
Odor:	Merchantable



Odor threshold:	Not available
PH:	Not available
Melting point / Freezing point:	Not available
Initial boiling point (IBP):	Min 55 °C
Boiling range:	55-115 °C
Distillation:	50% (@ 71-83 °C), 90% (@ 81-99 °C)
Dry point:	113 °C (maximum)
Total sulfur:	0.05 wt. % (maximum)
Aromatic content:	Report in volume % (ASTM D 1319)
Flash point:	Not available
Evaporation rate:	Not available
Upper / lower flammability limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility in water:	Not available
Partition coefficient:	Not available
Auto – ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available
Solubility (ies):	Not available
Explosive limit:	Not available

9.2) other information: No additional information



SECTION 10: Stability and Reactivity

10.1) Reactivity

Flammable liquid – stable

10.2) Chemical stability

The product is stable under storage at normal ambient temperature / pressure.

10.3) Possibility of hazardous reactions

Vapors can form explosive with air

10.4) Conditions to avoid

Keep away from sources of ignition (e.g. sparks, open flame).

10.5) incompatible materials

Oxidizing agents

10.6) Hazardous decomposition products

No specific data

SECTION 11: Toxicological Information

11.1) Information on toxicological effects: Not available



SECTION 12: Ecological Information

- 12.1) Toxicity: Not available
- 12.2) Persistence and degradability: Not available
- 12.3) Bioaccumulative potential: Not available
- 12.4) Mobility in soil: Not available
- 12.5) Results of PBT and vPvB assessment: Not available

SECTION 13: Disposal Considerations

13.1) Waste treatment methods: In accordance with local and national regulations. Handle with care. Dispose according to legislation. Collect and dispose of waste product an authorized disposal facility.

SECTION 14: Transport Information

- 14.1) UN umber: Mixture
- 14.2) UN proper shipping name: AW410
- 14.3) Transport hazard class (es)

14.3.1) Overland transport

Class: 3 – flammable liquid Packing Group: III

Hazard identification number (kemler No.) : Not Available

Classification code: Not Available

ADR / RID Labels : 3-flammable liquid



14.3.2) In land waterway transport (ADN)

Not Available

14.3.3) Transport by sea

Not Available

14.3.4) Air transport

Not Available

14.5) Environmental hazard

Not Available

14.6) Specific precautions user: Not Available

14.7) Transport in bulk according to Annex II of MARPOL

73/78

Not Available



SECTION 15: Regulatory Information

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

Not Available

15.2) Chemical safety assessment

Not Available

SECTION 16: Other Information

R66: Repeated exposure may cause skin dryness or

R10: Flammable

R65: Harmful may cause lung damage

cracking

R67: Vapor may cause drowsiness or dizziness

R48: Danger of serious damage to health by prolonged

exposure

H226: Flammable vapor / liquid

H304: May be fatal if swallowed and enters air way

H327: Cause damage to organs through prolonged or

repeated

H336: May cause drowsiness or dizziness