

Material Safety Data Sheet (MSDS)

Product	Kixx Brake DOT 3		
Team	Date of first preparation	Date of last revision	Revision Number
Finished Lubricants R&D Team	2012-11-30	2017-10-26	3

1. Chemical Product and Company Information

1) Product: Kixx Brake DOT 3

2) Recommended use of the chemical and restrictions on use

O Recommended use: Automotive Brake System

O Restrictions on use: No data

3) Manufacturer information

O Manufacturer: Dong-A special chemical Co.Ltd

○ Address: 441-32, Banje-Ri, Wongok-Myun, Ansung City, Kyungki-Do, 441-811, Korea

○ Information service or emergency call: +82-31-652-1301

O Department in charge: R&D Center

4) Supplier information

○ Supply company: GS Caltex Corporation

O Address: 679 Yoksam-dong, Kangnam-gu, Seoul, Korea

○ Information service or emergency call: 82-2-1899-5145

O Department in charge: Finished Lubricants R&D Team

2. Hazards Identification

- 1) Classification of the substance or mixture
 - Reproductive toxicity substances Category 2
- 2) GHS labels, including precautionary statements
 - Symbol



\bigcirc	Signal word: Warning
\bigcirc	Hazard statement

H361 Suspected of damaging fertility or the unborn child

O Precautionary statement

Prevention

P201 Obtain special instructions before use.

P202 Do noit handle until all safety precautions have been read and understood

P280 Wear protective gloves/protective clothing/eye protection/face protection.

- Response

P308+P313 IF exposed or concerned: Get medical advice/attention.

- Storage

P405 Stroe locked up.

- Disposal

P501 Dispose of contents/container to ...

3) Other hazards which do not result in classification

Component	IFPA	Health	Fire	Reactivity
- Diethylene glycol		1	1	0
- Triethyleneglycol monobutyl ether		2	1	0
- Methoxy triglycol		2	1	0
- Trade secrets		0	0	0

3. Composition and Information on Ingredients

Component	Synonyms	CAS No.	Content(%)
1) Diethylene glycol	2,2'-Oxybisethanol	111-46-6	40.0 ~ 45.0
Triethyleneglycol monobutyl ether	Triglycol monobutyl ether	143-22-6	15.0 ~ 20.0
3) Methoxy triglycol	Triethylene glycol monomethyl ether	112-35-6	35.0 ~ 40.0
4) Trade secrets	Trade secrets	Trade secrets	1.0 ~ 5.0

4. First Aid Measures

- 1) Eye contact:
 - Wash affected eyes for at least 15 minutes under running water with eyelids held open.
- 2) Skin contact:
 - Wash thoroughly with soap and water.
- 3) Inhalation:
 - Move to fresh air.
- 4) Ingestion:
 - Rinse mouth immediately and then drink plenty of water, seek medical attention.
- 5) Most important symptoms/effects, acute and delayed:
 - Consider the supply of oxygen.
- 6) First-aid treatment and information on medical doctors:
 - Treat symptomatically.

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire Fighting Measures

- 1) Recommanded(or prohibited) extinguishing media
 - O Recommanded extinguishing media:
 - Dry extinguishing media, carbon dioxide, water spray, AFFF foam, alcohol-resistant foam
 - O Prohibited extinguishing media:
 - High pressure water shoot
 - O Large fire:
 - No Data. Water spray, alcohol-resistant foam
- 2) Specific hazard from chemical material
 - O Thermal decomposition generate substances:
 - Diethylene glycol: Carbon compounds
 - Triethylene glycol monobutyl ether: Carbon compounds
 - Methoxy triglycol: Carbon compounds
 - An explosion and fire risk:
 - Ethylene glycol: A slight risk of fire
 - Sodium Benzoate: A slight risk of fire
 - Ionized water: A slight risk of fire
- 3) Special protective equipment.

If you can do without the risk of fire, the courage to move from the area.

Spray some substance to the pressurized water leakage, preventing them fromscattering.

6. Accidental Release Measures

- 1) Necessary actions to protect human health:
 - Eliminate all sources of ignition, adequate ventilation,
- 2) Necessary actions to protect the environment
 - Do not abandon your product to rivers.
- 3) Purification and removal methods
 - After absorbing material to absor using the disposal, burning

7. Handling and Stroage

- 1) Safety handling:
 - Eyes, skin, clothes and to avoid contact
- 2) Stroage:
 - Store in a cool, dry place.

8. Exposure Control and Personal Protection

- A. Exposure limits and biological exposure limits of chemical
- 1) Diethylene glycol
 - O Domestic Policy: Not Applicable
 - O ACGIH: No data
 - O Biological exposure limits: No data

 2) Triethyleneglycol monobutyl ether O Domestic Policy: Not Applicable O ACGIH: No data O Biological exposure limits: No data 	
 3) Methoxy triglycol O Domestic Policy: Not Applicable O ACGIH: Not applicable O Biological exposure limits: Not applicable 	
 4) Trade secrets O Domestic Policy: No data O ACGIH: No data O Biological exposure limits: No data 	
B. Engineering management: Ventilation: local exhaust ventilation system, install and maintain appropriate control over the wind speed to make it.	
 C. Personal protection equipment: Respiratory protection: A mask poison prevention Eyes protection: Safety glasses with side-shields(frame goggles) Hands protection: Chemical resistance protective gloves Human body protection: Wearing of closed work clothing is recommended. 	
9. Physical and Chemical Properties	_
1) Appearance : Amber liquid	
2) Odor : No data	
3) Odor threshold: No data	
4) pH: 9~10	
5) Melting point/freezing point: No data	
6) Initial boiling point or boiling range: >230℃	
7) Flash point: >140℃	
8) Evaporation rate (BuAc=1): No data	
9) Flammability(solid, gas): No data	

10) Upper/lower flammability or explosive limits(LEL / UEL): 15 / 3 vol%

11) Vapor pressure : < 1 mbar (20℃)
12) Solubility: soluble
13) Vapor density: >1
14) Relative density: 1.070 g/ mℓ (20°C)
15) Partition coeficient: n-octano/water : No data
16) Auto-ignition temperature ∶>200°C
17) Decomposition temperature : No data
18) Viscosity: 12 ~ 16 mm²/s (20℃)
19) Molecular weight: No data
0. Stability and Reactivity
1) Chemical stability:
- stable at room temperature.
2) Toxicant generation possibility during reaction :No hazardous reactions when stored and handled according to instructions.
3) Prohibited conditions: - heat, lights, fire works
4) Prohibited materials: - Oxidizers
5) When hazardous substances produced by decomposition: carbon oxides
1. Toxicological Information
A. Information on the likely routes of exposure
 Inhalation : Diethylene glycol: Headache, sleepiness, dizziness Ingestion :
Diethylene glycol: Hypothermia, fever, blood pressure changes, vomiting, diarrhea, sleepiness, chest pain, shortness of breath, headache, dizziness, cramping, lethargy
Triethylene glycol monobutyl ether: Kidney pain O Skin contact:
Diethylene glycol: Stimulus, absorbing
Triethylene glycol monobutyl ether: Stimulus
Diethylene glycol: Stimulus

Triethylene glycol monobutyl ether: Stimulus

B. Delayed and immediate effects and chronic effectsfrom short or long term exposure	
Acute Toxicity	
- Oral:	
Diethylene glycol: LD50 12,565mg/kg(rat)	
Triethylene glycol monobutyl ether: LD50 5,300mg/kg(rat)	
Methoxy triglycol: LD50 11,300 \(\mu_g/kg(rat) \)	
- Dermal:	
Diethylene glycol: LD50 11,890mg/kg(rabbit)	
Triethylene glycol monobutyl ether: LD50 2,000mg/kg(rabbit)	
Methoxy triglycol: LD50 7,100 \mu g/kg(rat)	
- Inhalation:	
Diethylene glycol: No data	
Triethylene glycol monobutyl ether: No data	
Methoxy triglycol: No data	
Skin Corrosion / irritation: No data	
Severe eye Damage/irritation: No data	
Respiratory sensitization: No data	
Skin sensitization: No data Skin sensitization: No data	
Carcinogenity: No data	
Germ cell mutagenity: No data	
ReproductiveToxicity: Distributions glycoli: No data	
Diethylene glycol: No data	
Triethylene glycol monobutyl ether: No data	
Methoxy triglycol: Toxic to Reproduction Category 2	
Specific target organToxicity(single exposure): No data	
Specific target organToxicity(repeated exposure): No data	
○ Aspiration toxicity: No data	
12. Ecological Information	
A. Aquatic, terrestrial organisms toxicity: No data	
Diethylene glycol: Fish: LC50 3,200mg/L/96h	
B. Persistence and degradability:	
Triethylene glycol monobutyl ether: BOD5/COD = 0.16	
C. Bioaccumulative potential	
- No data	
- No data	
D. Mobility in soil:	
- No data	
No data	
E. Other adverse effects:	
- No data	
data	
13. Disposal Considerations	
•	

1) Disposal methods:

Obsolete applied in accordance with regulations.

2) Disposal cautions:
Not Applicable

14. Transport Information

This product is not regulated for carriage according to ADR/RID, ADN, IMDG, ICAO/IATA.

1) UN number: Not applicable

2) UN Proper Shipping Name: Not applicable

3) Transport hazard classes: Not applicable

4) Packing group, if applicable: Not applicable

5) Environmental hazards: Not applicable

6) Special precautions for user: Not applicable

15. Regulatory Information

- A. Industrial safety regulations
 - O Diethylene glycol
 - -Measure workplace substance: Not Applicable
 - -Destination management of hazardous substances: Not Applicable
 - -Substance exposure standards set: Not Applicable
 - Triethylene glycol monobutyl ether
 - -Measure workplace substance: Not Applicable
 - -Destination management of hazardous substances: Not Applicable
 - -Substance exposure standards set: Not Applicable
 - Methoxy triglycol
 - -Measure workplace substance: Not Applicable
 - -Destination management of hazardous substances: Not Applicable
 - -Substance exposure standards set: Not Applicable
- B. Chemical control act (Korea)
 - Diethylene glycol: Not Applicable
 - Triethylene glycol monobutyl ether: Not Applicable
 - Methoxy triglycol: Not Applicable

Administration Act of hazardous chemicals regulation:

The finished product information- Not Applicable

Information componentized - Not Applicable (Ethylene glycol, Ionized water, Sodium Benzoate)

- C. Hazardous Safety Administration Act by regulation
 - Diethylene glycol: Not Applicable
 - Triethylene glycol monobutyl ether: Not Applicable
 - Methoxy triglycol: Not Applicable
 - Trade secrets: No Data
- D. Waste Management Act by regulation: No data

E. Other internal and foreign acts

- O EU classification
 - Category results confirmed:

Diethylene glycol: Xn; R22

Triethylene glycol monobutyl ether: Xi:R41

Methoxy triglycol: Xi
- Hazard Statement:
Diethylene glycol: R22

Triethylene glycol monobutyl ether: Xi; R41

Methoxy triglycol: R38

- Phrases precautions:
Diethylene glycol: S2, S46

Triethylene glycol monobutyl ether: S2, S26, S39, S46

Methoxy triglycol: S2, S24, S46

- O U.S. acts
 - OSHA regulation (29CFR1910.119): Not Applicable
 - CERCLA 103 regulation (40CFR302.4): Not Applicable
 - EPCRA 302 regulation (40CFR355.30): Not Applicable
 - EPCRA 304 regulation (40CFR355.40): Not Applicable
 - EPCRA 313 regulation (40CFR372.65): Not Applicable
 - PIC substance: Not ApplicablePOPs substance: Not Applicable

16. Other Information

- 1) References
 - Korea Occupatonal Safety & Health Agency
 - GS Caltex R&D Center
 - MSDS of raw material from supplier
 - KOSHANET
 - Occupation safety and health acts of Korea
 - Globally Harmonized System of classification and labeling of chemicals (GHS), First revised edition. United Nations
 - EINECS(European Inventory of Existing Commercial Chemical Substances)
 - ACGIH(American Conference of Governmental Safety and Health)
 - IUCLID Dataset
- 2) Date of preparation of the first version of the MSDS: 2012.11.30
- 3) Revised frequency and Date of preparation of the latest version of the MSDS: 2017-10-26 (3)

4) Others:

To the best of our knowledge, the information provided in this MSDS document is correct. Access to this information is being provided via the Internet so that it can be made available to as many potential users as possible. We do not assume any liability for consequences of the use of this information since it may be applied under conditions beyond our control or knowledge. Also, it is possible that additional data could be made available after this MSDS was issued.

Certain hazards are described herein, however these may not be the only hazards that exist. All materials may present unknown hazards and should be used with caution.

Customers are encouraged to review this information, follow precautions, and comply with all applicable laws and regulations regarding the use and disposal of this product. For specific technical data or advice concerning this product as supplied in your country please contact your local sales representative.

The final determination of the suitability of any material is the sole responsibility of the user.



Material Safety Data Sheet (MSDS)

Product	Kixx Brake DOT 4

Team	Date of first preparation	Date of last revision	Revision Number
Finished Lubricants R&D Team	2012-11-30	2017-10-26	3

1. Chemical Product and Company Information

1) Product: Kixx Brake DOT 4

2) Recommended use of the chemical and restrictions on use

O Recommended use: Automotive Brake System

O Restrictions on use: No data

- 3) Manufacturer information
 - O Manufacturer: Dong-A special chemical Co.Ltd
 - O Address: 293-14, giupdanji-ro, Wongok-Myun, Ansung City, Kyungki-Do, South Korea
 - Information service or emergency call: +82-31-652-1301
 - O Department in charge: R&D Center
- 4) Supplier information
 - O Supply company: GS Caltex Corporation
 - O Address: Nonhyeon-ro 508(Yeoksam-dong), Gangnam-gu, Seoul, South Korea
 - Information service or emergency call: 82-2-1899-5145
 - O Department in charge: Finished Lubricants R&D Team

2. Hazards Identification

- 1) Classification of the substance or mixture
 - Reproductive toxicity substances Category 2
- 2) GHS labels, including precautionary statements
 - Symbol



- O Signal word: Warning
- O Hazard statement

H361 Suspected of damaging fertility or the unborn child

- O Precautionary statement
 - Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

- Response

P308+P313 IF exposed or concerned: Get medical advice/attention.

- Storage

P405 Store locked up.

- Disposal

P501 Dispose of contents/container to ...

3) Other hazards which do not result in classification

NFF Component	A Health	Fire	Reactivity
- Diethylene glycol	1	1	0
- Triethyleneglycol monobutyl ether	2	1	0
- Methoxy triglycol	2	1	0
- Trade secrets	0	0	0

3. Composition and Information on Ingredients

Component	Synonyms	CAS No.	Content(%)
1) Diethylene glycol	2,2'-Oxybisethanol	111-46-6	40.0 ~ 45.0
2) Triethyleneglycol monobutyl ether	Triglycol monobutyl ether	143-22-6	15.0 ~ 20.0
3) Methoxy triglycol	Triethylene glycol monomethyl ether	112-35-6	35.0 ~ 40.0
4) Trade secrets	Trade secrets	Trade secrets	1.0 ~ 5.0

4. First Aid Measures

- 1) Eye contact:
 - Wash affected eyes for at least 15 minutes under running water with eyelids held open.
- 2) Skin contact:
 - Wash thoroughly with soap and water.
- 3) Inhalation:
 - Move to fresh air.
- 4) Ingestion:
 - Rinse mouth immediately and then drink plenty of water, seek medical attention.
- 5) Most important symptoms/effects, acute and delayed:

- Consider the supply of oxygen.
- 6) First-aid treatment and information on medical doctors:
 - Treat symptomatically.

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire Fighting Measures

- 1) Recommanded(or prohibited) extinguishing media
 - O Recommanded extinguishing media:
 - Dry extinguishing media, carbon dioxide, water spray, AFFF foam, alcohol-resistant foam
 - O Prohibited extinguishing media:
 - High pressure water shoot
 - O Large fire:
 - No Data. Water spray, alcohol-resistant foam
- 2) Specific hazard from chemical material
 - Thermal decomposition generate substances:
 - Diethylene glycol: Carbon compounds
 - Triethylene glycol monobutyl ether: Carbon compounds
 - Methoxy triglycol: Carbon compounds
 - O An explosion and fire risk:
 - Ethylene glycol: A slight risk of fire
 - Sodium Benzoate: A slight risk of fire
 - Ionized water: A slight risk of fire
- 3) Special protective equipment.

If you can do without the risk of fire, the courage to move from the area.

Spray some substance to the pressurized water leakage, preventing them fromscattering.

6. Accidental Release Measures

- 1) Necessary actions to protect human health:
 - Eliminate all sources of ignition, adequate ventilation,
- 2) Necessary actions to protect the environment
 - Do not abandon your product to rivers.
- 3) Purification and removal methods
 - After absorbing material to absor using the disposal, burning

7. Handling and Stroage

- 1) Safety handling:
 - Eyes, skin, clothes and to avoid contact
- 2) Stroage:
 - Store in a cool, dry place.

8. Exposure Control and Personal Protection

5) Melting point/freezing point: No data

6) Initial boiling point or boiling range: >230℃

A. Exposure limits and biological exposure limits of chemical	
1) Diethylene glycol	
O Domestic Policy: Not Applicable	
○ ACGIH : No data○ Biological exposure limits : No data	
O biological exposure littles . No data	
2) Triethyleneglycol monobutyl ether	
O Domestic Policy: Not Applicable	
O ACGIH: No data	
○ Biological exposure limits : No data	
3) Methoxy triglycol	
O Domestic Policy: Not Applicable	
○ ACGIH: Not applicable	
○ Biological exposure limits : Not applicable	
4) Trade secrets	
○ Domestic Policy: No data	
○ ACGIH: No data	
○ Biological exposure limits: No data	
B. Engineering management: Ventilation: local exhaust ventilation system, install and maintain appropriate control over the wind speed to make it.	
Control over the wind speed to make it.	
C. Personal protection equipment:	
○ Respiratory protection:	
A mask poison prevention	
Eyes protection:	
Safety glasses with side-shields(frame goggles)	
 Hands protection : Chemical resistance protective gloves 	
Human body protection:	
Wearing of closed work clothing is recommended.	
9. Physical and Chemical Properties	
1) Appearance : Amber liquid	
2) Odor : No data	
3) Odor threshold : No data	
4) pH: 9~10	

7) Flash point : >140℃	
8) Evaporation rate (BuAc=1): No data	
9) Flammability(solid, gas): No data	
10) Upper/lower flammability or explosive limits(LEL / UEL): 15 / 3 vol%	
11) Vapor pressure : < 1 mbar (20℃)	
12) Solubility: soluble	
13) Vapor density: >1	
14) Relative density: 1.070 g/ mℓ (20°C)	
15) Partition coeficient: n-octano/water : No data	
16) Auto-ignition temperature ∶>200℃	
17) Decomposition temperature : No data	
18) Viscosity: 12 ~ 16 mm³/s (20℃)	
19) Molecular weight: No data	
10. Stability and Reactivity	
1) Chemical stability: - stable at room temperature.	
2) Toxicant generation possibility during reaction :No hazardous reactions when stored and handled according to instructions.	
3) Prohibited conditions: - heat, lights, fire works	
4) Prohibited materials: - Oxidizers	
5) When hazardous substances produced by decomposition: carbon oxides	
11. Toxicological Information	
A. Information on the likely routes of exposure	
 Inhalation: Diethylene glycol: Headache, sleepiness, dizziness Ingestion: Diethylene glycol: Hypothermia, fever, blood pressure changes, vomiting, diarrhea, sleepiness, 	

	chest pain, shortness of breath, headache, dizziness, cramping, lethargy
	Triethylene glycol monobutyl ether: Kidney pain
	○ Skin contact:
	Diethylene glycol: Stimulus, absorbing
	Triethylene glycol monobutyl ether: Stimulus
	○ Eye contact :
	Diethylene glycol: Stimulus
	Triethylene glycol monobutyl ether: Stimulus
В.	Delayed and immediate effects and chronic effectsfrom short or long term exposure
	○ Acute Toxicity
	- Oral:
	Diethylene glycol: LD50 12,565mg/kg(rat)
	Triethylene glycol monobutyl ether: LD50 5,300mg/kg(rat)
	Methoxy triglycol: LD50 11,300 \mu g/kg(rat)
	- Dermal:
	Diethylene glycol: LD50 11,890mg/kg(rabbit)
	Triethylene glycol monobutyl ether: LD50 2,000mg/kg(rabbit)
	Methoxy triglycol: LD50 7,100 \mu g/kg(rat)
	- Inhalation:
	Diethylene glycol: No data
	Triethylene glycol monobutyl ether: No data
	Methoxy triglycol: No data
	○ Skin Corrosion / irritation: No data
	○ Severe eye Damage/irritation: No data
	O Respiratory sensitization: No data
	○ Skin sensitization: No data
	○ Carcinogenity: No data
	○ Germ cell mutagenity: No data
	ReproductiveToxicity:
	Diethylene glycol: No data
	Triethylene glycol monobutyl ether: No data
	Methoxy triglycol: Toxic to Reproduction Category 2
	○ Specific target organToxicity(single exposure): No data
	○ Specific target organToxicity(repeated exposure): No data
	○ Aspiration toxicity: No data
E	cological Information

12. E

A. Aquatic, terrestrial organisms toxicity: No data Diethylene glycol: Fish: LC50 3,200mg/L/96h

- B. Persistence and degradability:
 - Triethylene glycol monobutyl ether: BOD5/COD = 0.16
- C. Bioaccumulative potential
 - No data
- D. Mobility in soil:
 - No data

- E. Other adverse effects:
 - No data

13. Disposal Considerations

1) Disposal methods:

Obsolete applied in accordance with regulations.

2) Disposal cautions:

Not Applicable

14. Transport Information

This product is not regulated for carriage according to ADR/RID, ADN, IMDG, ICAO/IATA.

- 1) UN number: Not applicable
- 2) UN Proper Shipping Name: Not applicable
- 3) Transport hazard classes: Not applicable
- 4) Packing group, if applicable: Not applicable
- 5) Environmental hazards: Not applicable
- 6) Special precautions for user: Not applicable

15. Regulatory Information

- A. Industrial safety and health act (Korea)

 Not determined
- B. Chemical control act (Korea)

Not determined

C. Dangerous Goods Safe Control Act (Korea)

Category 4 Dangerous Goods (Flammable Liquids), Grade 4 petroleum chemicals

D. Wastes control act (Korea)

No data

- E. Other internal and foreign acts
 - O EU classification
 - Category results confirmed:

Diethylene glycol: Xn; R22

Triethylene glycol monobutyl ether: Xi:R41

Methoxy triglycol: Xi
- Hazard Statement:

Diethylene glycol: R22

Triethylene glycol monobutyl ether: Xi; R41

Methoxy triglycol: R38

- Phrases precautions:
Diethylene glycol: S2, S46

Triethylene glycol monobutyl ether: S2, S26, S39, S46

Methoxy triglycol: S2, S24, S46

O U.S. acts

- OSHA regulation (29CFR1910.119): Not Applicable
- CERCLA 103 regulation (40CFR302.4): Not Applicable
- EPCRA 302 regulation (40CFR355.30): Not Applicable
- EPCRA 304 regulation (40CFR355.40): Not Applicable
- EPCRA 313 regulation (40CFR372.65): Not Applicable
- PIC substance: Not ApplicablePOPs substance: Not Applicable

16. Other Information

- 1) References
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 - Occupation safety and health acts of Korea
 - Globally Harmonized System of classification and labeling of chemicals (GHS), First revised edition. United Nations
 - EINECS(European Inventory of Existing Commercial Chemical Substances)
 - ACGIH(American Conference of Governmental Safety and Health)
 - IUCLID Dataset
- 2) Date of preparation of the first version of the MSDS: 2012.11.30
- 3) Revised frequency and Date of preparation of the latest version of the MSDS: 2017-10-26 (3)

4) Others:

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Customers are encouraged to review this information, follow precautions, and comply with all applicable laws and regulations regarding the use and disposal of this product.

For specific technical data or advice concerning this product as supplied in your country please contact your local sales representative.

The final determination of the suitability of any material is the sole responsibility of the user.