

Safety Data Sheet acc. to OSHA HCS

Printing date 07/22/2026

Reviewed on 07/22/2026

1 Identification

- **Product identifier**
- **Trade name:** L12.1.K1 DTM LOW VOC BINDER
- **Article number:** L12.1.K1
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
GlobalStar is a product of Lusid Technologies Inc.
4725 S Camp Kearns Road
Kearns, UT 84118
(801) 966-5300
info@lusidtechnologies.com
- **Information department:** Product safety department
- **Emergency telephone number:**
24 Hrs Emergency Contact:
INFOTRAC
1-800-535-5053

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 1A

H350 May cause cancer.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**

GHS02 GHS07 GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

4-chloro-alpha,alpha,alpha-trifluorotoluene
 n-butyl acetate
 acetone
 ethylbenzene
 bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

· **Hazard statements**

Highly flammable liquid and vapor.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 May cause cancer.
 May cause drowsiness or dizziness.

· **Precautionary statements**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/attention.
 Call a poison center/doctor if you feel unwell.
 Specific treatment (see on this label).
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 In case of fire: Use CO2, powder or water spray to extinguish.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *2
Fire = 3
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

123-86-4	n-butyl acetate	10-25%
67-64-1	acetone	10-25%
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	10-25%
110-43-0	heptan-2-one	2.5-10%
1330-20-7	xylene	≤2.5%
100-41-4	ethylbenzene	≤2.5%
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	≤2.5%
64-17-5	ethanol	≤2.5%
7779-90-0	trizinc bis(orthophosphate)	≤2.5%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

123-86-4	n-butyl acetate	5.0 ppm
67-64-1	acetone	200 ppm
110-43-0	heptan-2-one	75 ppm
1330-20-7	xylene	130 ppm
100-41-4	ethylbenzene	33 ppm
64-17-5	ethanol	1800 ppm
7779-90-0	trizinc bis(orthophosphate)	1.8 mg/m ³
67-56-1	methanol	530 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m ³
7784-30-7	Aluminium phosphate	18 mg/m ³
122-99-6	2-phenoxyethanol	5.7 mg/m ³
1314-13-2	zinc oxide	10 mg/m ³
67-63-0	propan-2-ol	400 ppm
108-88-3	toluene	67 ppm

· PAC-2:

123-86-4	n-butyl acetate	200 ppm
67-64-1	acetone	3200 ppm
110-43-0	heptan-2-one	130 ppm

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1330-20-7	xylene	920 ppm
100-41-4	ethylbenzene	1100 ppm
64-17-5	ethanol	3300 ppm
7779-90-0	trizinc bis(orthophosphate)	20 mg/m3
67-56-1	methanol	2100 ppm
77-58-7	dibutyltin dilaurate	3.8 mg/m3
7784-30-7	Aluminium phosphate	200 mg/m3
122-99-6	2-phenoxyethanol	42 mg/m3
1314-13-2	zinc oxide	15 mg/m3
67-63-0	propan-2-ol	2000 ppm
108-88-3	toluene	560 ppm

· **PAC-3:**

123-86-4	n-butyl acetate	3000 ppm
67-64-1	acetone	5700 ppm
110-43-0	heptan-2-one	800 ppm
1330-20-7	xylene	2500 ppm
100-41-4	ethylbenzene	1800 ppm
64-17-5	ethanol	15000 ppm
7779-90-0	trizinc bis(orthophosphate)	120 mg/m3
67-56-1	methanol	7200 ppm
77-58-7	dibutyltin dilaurate	23 mg/m3
7784-30-7	Aluminium phosphate	1200 mg/m3
122-99-6	2-phenoxyethanol	250 mg/m3
1314-13-2	zinc oxide	2500 mg/m3
67-63-0	propan-2-ol	12000 ppm
108-88-3	toluene	3700 ppm

7 Handling and storage

· **Handling:**· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:** Store in a cool location.· **Information about storage in one common storage facility:** Not required· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

123-86-4 n-butyl acetate

PEL Long-term value: 710 mg/m³, 150 ppm

REL Short-term value: 950 mg/m³, 200 ppm

Long-term value: 710 mg/m³, 150 ppm

TLV Short-term value: 712 mg/m³, 150 ppm

Long-term value: 238 mg/m³, 50 ppm

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 1187 mg/m³, 500 ppm

Long-term value: 594 mg/m³, 250 ppm

A4, BEI

110-43-0 heptan-2-one

PEL Long-term value: 465 mg/m³, 100 ppm

REL Long-term value: 465 mg/m³, 100 ppm

TLV Long-term value: 50 ppm

1330-20-7 xylene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

TLV Long-term value: 20 ppm

BEI, A4

100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 545 mg/m³, 125 ppm

Long-term value: 435 mg/m³, 100 ppm

TLV Long-term value: 20 ppm

OTO, BEI, A3

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm

REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1880 mg/m³, 1000 ppm

A3

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Ingredients with biological limit values:

67-64-1 acetone

BEI 25 mg/L
 Medium: urine
 Time: end of shift
 Parameter: Acetone (nonspecific)

1330-20-7 xylene

BEI 0.3 g/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI 0.15 g/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

· **Additional information:** The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
 Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:

Liquid

Color:

Whitish

· Odor:

Product specific

· Odor threshold:

Not determined

· pH-value:

Not determined (pH N/A in solvent coatings)

· Change in condition

Melting point/Melting range:

Undetermined

Boiling point/Boiling range:

55.8-56.6 °C (132.4-133.9 °F)

· Flash point:

<-18 °C (<-0.4 °F)

· Flammability:

Highly flammable.

· Auto igniting:

370 °C (698 °F)

· Decomposition temperature:

Not determined

· Ignition temperature:

Product is not selfigniting.

· Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower:

1.2 Vol %

Upper:

13 Vol %

· Vapor pressure at 20 °C (68 °F):

233 hPa (174.8 mm Hg)

· Vapor pressure at 50 °C (122 °F):

800 hPa (600 mm Hg)

· Density at 20 °C (68 °F):

1.0084 g/cm³ (8.4151 lbs/gal)

· Relative density

Not determined

· Vapor density

Not determined

· Evaporation rate

Not determined

· Solubility in / Miscibility with

Water:

Fully miscible.

· Partition coefficient (n-octanol/water): Not determined

· Viscosity:

Dynamic:

Not determined

Kinematic:

Not determined

· Solvent content:

Organic solvents:

44.4 %

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VOC content:	27.36 % 359.4 g/l / 3.00 lb/gal
Solids content:	47.4 %
Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	2B
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
64-17-5	ethanol	1
67-63-0	propan-2-ol	3
108-88-3	toluene	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

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- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---|----------------------------|
| · UN-Number | UN1300 |
| · DOT, IMDG, IATA | |
| · UN proper shipping name | Turpentine substitute |
| · DOT | TURPENTINE SUBSTITUTE |
| · IMDG, IATA | |
| · Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group | II |
| · DOT, IMDG, IATA | |
| · Environmental hazards: | Not applicable |
| · Special precautions for user | Warning: Flammable liquids |

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- **Hazard identification number (Kemler code):** 33
- **EMS Number:** F-E, S-E
- **Stowage Category** B
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable
- **Transport/Additional information:**
- **DOT**
- **Quantity limitations** On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L
- **IMDG**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
- **UN "Model Regulation":** UN 1300 TURPENTINE SUBSTITUTE, 3, II

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7	xylene
100-41-4	ethylbenzene
7779-90-0	trizinc bis(orthophosphate)
67-56-1	methanol
122-99-6	2-phenoxyethanol
1314-13-2	zinc oxide
67-63-0	propan-2-ol
108-88-3	toluene

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

1330-20-7	xylene
100-41-4	ethylbenzene
67-56-1	methanol
122-99-6	2-phenoxyethanol
108-88-3	toluene

· Proposition 65

· Chemicals known to cause cancer:

98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	10-25%
100-41-4	ethylbenzene	0.478%

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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5	ethanol	0.18%
67-56-1	methanol	0.074%
108-88-3	toluene	0.001%

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
1330-20-7	xylene	I
100-41-4	ethylbenzene	D
7779-90-0	trizinc bis(orthophosphate)	D, I, II
1314-13-2	zinc oxide	D, I, II
108-88-3	toluene	II

· **TLV (Threshold Limit Value)**

67-64-1	acetone	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
64-17-5	ethanol	A3
77-58-7	dibutyltin dilaurate	A4
67-63-0	propan-2-ol	A4
108-88-3	toluene	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

4-chloro-alpha,alpha,alpha-trifluorotoluene

n-butyl acetate

acetone

ethylbenzene

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

· **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

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*May cause cancer.**May cause drowsiness or dizziness.***Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**Ground/bond container and receiving equipment.**Use explosion-proof electrical/ventilating/lighting/equipment.**Use only non-sparking tools.**Take precautionary measures against static discharge.**Avoid breathing dust/fume/gas/mist/vapors/spray**Wash thoroughly after handling.**Use only outdoors or in a well-ventilated area.**Contaminated work clothing must not be allowed out of the workplace.**Wear protective gloves/protective clothing/eye protection/face protection.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Call a poison center/doctor if you feel unwell.**Specific treatment (see on this label).**Take off contaminated clothing and wash it before reuse.**If skin irritation or rash occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**Wash contaminated clothing before reuse.**In case of fire: Use CO2, powder or water spray to extinguish.**Store in a well-ventilated place. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***National regulations:****Additional classification according to Decree on Hazardous Materials:***Carcinogenic hazardous material group III (dangerous).***Information about limitation of use:***Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.***Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.***Department issuing SDS:** Environment protection department.**Contact:** Product Safety Dept.**Date of preparation / last revision** 07/22/2026 / 10**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

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*HMIS: Hazardous Materials Identification System (USA)**VOC: Volatile Organic Compounds (USA, EU)**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**NIOSH: National Institute for Occupational Safety**OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**BEI: Biological Exposure Limit**Flammable Liquids 2: Flammable liquids – Category 2**Skin Irritation 2: Skin corrosion/irritation – Category 2**Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A**Sensitization - Skin 1: Skin sensitisation – Category 1**Carcinogenicity 1A: Carcinogenicity – Category 1A**Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3**** Data compared to the previous version altered.**

USA