

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/16/2015

Version 5

Reviewed on 07/16/2015

**1 Identification of the substance/mixture and of the company/undertaking**

**Product identifier** Powercrete J Part B

**Trade name:** Powercrete J Part B

**Relevant identified uses of the substance or mixture and uses advised against**

**Sector of Use**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Product category** PC9a Coatings and paints, thinners, paint removers

**Process category**

PROC10 Roller application or brushing

PROC11 Non industrial spraying

**Environmental release category**

ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

**Application of the substance / the mixture** Epoxy curing agent

**Uses advised against** -

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:** Seal For Life Industries - Powercrete™

**Contact details**

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**Information department:** Occupational product safety department of Seal For Life Industries

**Emergency telephone number:**

For worldwide emergency assistance call CHEMTREC (24 hours):  
Within USA/Canada 1-800-424-9300; Outside USA/Canada +1 703-527-3887 (collect calls accepted)

**2 Hazard(s) identification**

**Classification of the substance or mixture**



GHS08 Health hazard

Repr. 2

H361 Suspected of damaging fertility or the unborn child.

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GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.



GHS09 Environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.  
Skin Sens. 1 H317 May cause an allergic skin reaction.

**Label elements**

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

**Hazard pictograms**



GHS05



GHS07



GHS08



GHS09

**Signal word** Danger

**Hazard-determining components of labeling:**

trimethylhexane-1,6-diamine  
4-tert-butylphenol  
(O,O'-Bis(2-aminopropyl)polypropyleneglycol)

**Hazard statements**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dusts or mists.  
P280 Wear protective gloves.  
P280 Wear eye protection / face protection.  
P273 Avoid release to the environment.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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.  
P321 Specific treatment (see on this label).

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P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P363	Wash contaminated clothing before reuse.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not available.  
**vPvB:** Not available.

**3 Composition/information on ingredients**

**Chemical characterization: Mixtures**

**Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous components:		
25620-58-0	trimethylhexane-1,6-diamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	50-100%
98-54-4	4-tert-butylphenol ⚠ Repr. 2, H361; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315	25-50%
9046-10-0	(O,O'-Bis(2-aminopropyl)polypropyleneglycol) ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; Aquatic Acute 3, H402	5.0-10.0%

**4 First-aid measures**

**Description of first aid measures**

**General information:**

Personal protection for the First Aider.  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

Take affected persons into fresh air and keep quiet.  
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.  
If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Do not induce vomiting; immediately call for medical help.  
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed**

- Headache
- Dizziness
- Unconsciousness
- Nausea
- Cramp
- Breathing difficulty
- Coughing
- Asthma attacks

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**Indication of any immediate medical attention and special treatment needed**

Medical supervision for at least 48 hours.

**\* 5 Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO<sub>x</sub>)

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

**Advice for firefighters**

**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

**6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Remove persons from danger area.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective clothing.

**Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 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.

**\* 7 Handling and storage**

**Handling:**

**Precautions for safe handling**

Keep receptacles tightly sealed.

Ensure appropriate ventilation/exhaust at the workplace.

**Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**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.

Store receptacle in fume compartment.

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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 item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**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.  
Do not eat, drink, smoke or sniff while working.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.

**Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use selfcontained respiratory protective device.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
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.

Nitrile rubber, NBR  
Butyl rubber, BR  
Neoprene gloves  
PVC gloves

**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.

**Eye protection:**



Tightly sealed goggles

**Body protection:** Impervious protective clothing

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**\* 9 Physical and chemical properties**

Information on basic physical and chemical properties	
<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Color:</b>	Amber colored
<b>Odor:</b>	Fish-like
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	236 °C (457 °F)
<b>Flash point:</b>	> 93 °C (> 199 °F)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	230 °C (446 °F)
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Density at 20 °C (68 °F):</b>	0.97 g/cm <sup>3</sup> (8.095 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix.
<b>Segregation coefficient (n-octanol/water):</b> Not determined.	
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Other information</b>	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**

Reacts with acids.

Reacts with strong oxidizing agents.

Reacts with various metals.

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**Conditions to avoid** No further relevant information available.

**Incompatible materials:**

 Reacts with strong acids.  
 Reacts with oxidizing agents.

**Hazardous decomposition products:**

 Carbon monoxide and carbon dioxide  
 Nitrogen oxides  
 Ammonia  
 Hydrogen cyanide (prussic acid)  
 Aldehyde

**11 Toxicological information**
**Information on toxicological effects**
**Acute toxicity:**
**LD/LC50 values that are relevant for classification:**
**ATE (Acute Toxicity Estimates)**

Oral	LD50	1349 mg/kg (rat)
Dermal	LD50	5006 mg/kg (rabbit)

**25620-58-0 trimethylhexane-1,6-diamine**

Oral	LD50	900 mg/kg (rat)
------	------	-----------------

**98-54-4 4-tert-butylphenol**

Oral	LD50	2951 mg/kg (rat)
Dermal	LD50	2288 mg/kg (rabbit)

**9046-10-0 (O,O'-Bis(2-aminopropyl)polypropyleneglycol)**

Oral	LD50	2855 mg/kg (rat)
Dermal	LD50	2980 mg/kg (rabbit)

**Primary irritant effect:**
**on the skin:** Strong caustic effect on skin and mucous membranes.

**on the eye:** Strong caustic effect.

**Sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

 Harmful  
 Corrosive  
 Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**Carcinogenic categories**
**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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**\* 12 Ecological information**
**Toxicity**

<b>Aquatic toxicity:</b>	
<b>25620-58-0 trimethylhexane-1,6-diamine</b>	
EC50/24h	31.5 mg/l (Daphnia magna)
EC50/72h	29.5 mg/l (Algae - Desmodesmus subspicatus)
LC50/48h	172 mg/l (Fish - Leuciscus idus)
<b>98-54-4 4-tert-butylphenol</b>	
EC50	2 mg/l (Daphnia magna) (OECD 211 - 21 days)
EC50/48h	4.8 mg/l (Daphnia magna) (OECD 202)
ErC50/72h - Inhibition of average growth rate	14 mg/l (Algae - Pseudokirchnerella subcapitata) (OECD 201)
LC50/96h	> 1 mg/l (Fish - Oncorhynchus mykiss) (OECD 203)
NOEC/21days	0.73 mg/l (Daphnia magna) (OECD 202)
NOEC/72h	0.32 mg/l (Algae - Pseudokirchnerella subcapitata) (OECD 201)
<b>9046-10-0 (O,O'-Bis(2-aminopropyl)polypropyleneglycol)</b>	
EC50/96h	>15 mg/l (Fish - Oncorhynchus mykiss) (OECD 203)
LC50/96h	772 mg/l (Fish - Sheepshead minnow) (OECD 203)
NOEC/72h	0.32 mg/l (Algae - Pseudokirchnerella subcapitata) (OECD 201)

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**
**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Ecotoxicological effects:**
**Remark:** Very toxic for fish

**Additional ecological information:**
**General notes:**

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**Results of PBT and vPvB assessment**
**PBT:** Not available.

**vPvB:** Not available.

**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.

**\* 14 Transport information**

<b>UN-Number</b>	
<b>DOT, ADR, IMDG, IATA</b>	UN2735

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<b>UN proper shipping name</b>	
<b>DOT</b>	Amines, liquid, corrosive, n.o.s. (Trimethylhexamethylenediamines, 4-tert-butylphenol)
<b>ADR</b>	2735 Amines, liquid, corrosive, n.o.s. (Trimethylhexamethylenediamines, 4-tert-butylphenol), ENVIRONMENTALLY HAZARDOUS
<b>IMDG</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (TRIMETHYLHEXAMETHYLENEDIAMINES, 4-tert-butylphenol), MARINE POLLUTANT
<b>IATA</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (TRIMETHYLHEXAMETHYLENEDIAMINES, 4-tert-butylphenol)
<b>Transport hazard class(es)</b>	
<b>DOT</b>	
	
<b>Class Label</b>	8 Corrosive substances 8
<b>ADR, IMDG</b>	
	
<b>Class Label</b>	8 Corrosive substances 8
<b>IATA</b>	
	
<b>Class Label</b>	8 Corrosive substances 8
<b>Packing group</b>	
<b>DOT, ADR, IMDG, IATA</b>	III
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>Special marking (ADR):</b>	Symbol (fish and tree)
<b>Special precautions for user</b>	Warning: Corrosive substances
<b>Danger code (Kemler):</b>	80
<b>EMS Number:</b>	F-A,S-B
<b>Segregation groups</b>	Alkalis
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

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<b>Transport/Additional information:</b>	
<b>DOT</b>	
<b>Remarks:</b>	Special marking with the symbol (fish and tree).
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<b>ADR</b>	
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation":</b>	UN2735, Amines, liquid, corrosive, n.o.s. (Trimethylhexamethylenediamines, 4-tert-butylphenol), ENVIRONMENTALLY HAZARDOUS, 8, III

**\*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):**

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

All ingredients of this product are included, or are exempted from inclusion in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**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:**

None of the ingredients is listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**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**



GHS05 GHS07 GHS08 GHS09

**Signal word** Danger

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**Hazard-determining components of labeling:**

trimethylhexane-1,6-diamine  
4-tert-butylphenol  
(O,O'-Bis(2-aminopropyl)polypropyleneglycol)

**Hazard statements**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dusts or mists.  
P280 Wear protective gloves.  
P280 Wear eye protection / face protection.  
P273 Avoid release to the environment.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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.  
P321 Specific treatment (see on this label).  
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.  
P363 Wash contaminated clothing before reuse.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**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:** Occupational product safety department of Seal For Life Industries

**Contact:**

Seal For Life Industries  
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**Date of preparation / last revision** 07/16/2015 / 4

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity, Hazard Category 4

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Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Repr. 2: Reproductive toxicity, Hazard Category 2  
Aquatic Acute 3: Hazardous to the aquatic environment - AcuteHazard, Category 3  
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3  
**\* Data compared to the previous version altered.**

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— US —